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# The Cost of Basic Combat Training Injuries in the U.S. Army: Injury-Related Medical Care and Risk Factors

# **Final Technical Report**

## Prepared for

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U.S. Army Research Institute of Environmental Medicine
Natick, Massachusetts

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# The Cost of Basic Combat Training Injuries in the U.S. Army: Injury-Related Medical Care and Risk Factors

# Technical Report

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## **Executive Summary**

## Purpose:

The purpose of this project was to use data from the Total Army Injury and Health Outcomes Database (TAIHOD) to analyze the direct medical costs to the Army of injuries occurring during Basic Combat Training (BCT) and to identify factors associated with injuries having the greatest impact on the Army. The specific project objectives were as follows: 1) Identify injuries and associated medical care and costs, 2) identify BCT injuries with substantial impact on the Army, and 3) identify risk factors for BCT injuries with substantial impact on the Army.

#### Methods:

A cohort of 333,347 apparent first-time trainees (83.4% men, 16.6% women) who started BCT between January 1, 2002 and September 30, 2007 was identified. The injury ascertainment period for each trainee began with the estimated start of BCT and lasted until the end of the month during which training ended. Medical encounter data from the Military Health System Data Repository (MDR) were used to identify trainees who sustained an injury during BCT. Injury-related medical encounters were identified using primary or secondary International Classification of Diseases (ICD-9) diagnosis and/or procedure codes.

Total direct medical cost per trainee was calculated by summing the costs of inpatient and outpatient care. Injury related medical costs were estimated using an incremental cost analysis whereby medical costs of injured trainees were compared to medical costs of uninjured trainees, controlling for the effects of sociodemographic characteristics, anthropometric characteristics, accession characteristics, and training location using multiple regression. The total direct cost to the Army of BCT-related injuries was estimated by multiplying the gender-specific adjusted mean incremental cost of injury by the gender-specific injury incidence, and then summing across genders.

Three outcomes were selected for further analysis in order to identify risk factors for injuries having a substantial impact on the Army: 1) a dichotomous indicator of any injury occurrence, 2) a continuous measure of total direct cost of medical care per trainee, and 3) a dichotomous indicator of high-cost injury, defined as an injury resulting in direct medical costs greater than \$10,000 per trainee or an injury necessitating inpatient care.

#### Results:

Among the entire cohort, 43.04% had at least one injury-related medical encounter during BCT (n=143,459), comprising 39.48% (n=109,760) of men and 60.95% (n=33,705) of women. The same nine primary diagnoses were associated with the highest numbers of medical encounters for both men and women, though their rankings differed by gender. The most common reason for medical encounters for both men and women was "pain in joint, lower leg", accounting for approximately 15% of injury visits. Other common diagnoses were "pain in limb," "pain in joint, ankle & foot," "sprain of ankle, unspecified," "backache, unspecified," "low back pain," "sprains and strains of unspecified site of knee and leg," "joint pain, shoulder," and "pain in joint, pelvic region and thigh."

For both men and women, older age, white race/ethnicity, lower educational attainment, being married or divorced vs. single, lower pay grade, and scoring lower on the Armed Forces

Qualification Test (AFQT) were independently associated with increased injury risk. Accession waivers, which were used as a proxy for pre-existing injury, were associated with increased risk of injury for men, but this association was not clear for women. Injury risk varied by training location. For men, training at Fort Benning was associated with higher injury risk than training at any of the other four locations. For women, training at Fort Leonard Wood was associated with higher injury risk than training at Fort Jackson.

Overall, the Army spent an average of approximately \$1200 on medical care per trainee over the study period. Injury status was the single largest predictor of direct medical costs. The mean medical cost per injured trainee was \$1755.00, compared to \$794.60 per non-injured trainee. Thus, for each injured trainee, the Army spent an additional \$960.40, on average. After adjusting for other factors that affect costs, the mean additional cost of injury was estimated to be \$872.20 (\$1093.70 for women, \$825.90 for men). These additional costs of injury amounted to a total of \$127,507,380 for the entire study period, or \$21,929,700 per year.

Mean medical costs were higher for women than men, but predictors of cost were similar for men and women. Controlling for other factors that affect costs, increased costs were associated with older age, white race/ethnicity, lower educational attainment, and higher BMI, for both men and women. Medical costs were also higher for married and divorced women than for single women, but marital status did not significantly affect medical costs for men. Having a medical waiver at accession was not statistically significantly associated with medical costs during BCT for men or women.

Of the ten most common injury diagnoses, "physical therapy necessary" had the highest overall mean costs, at \$2522.30 per trainee, followed by "pain in joint, pelvis & thigh," at \$2512.60 per trainee. Over all injuries, Fort Benning had the lowest mean costs (\$1566.50 per injured trainee) and Fort Jackson had the highest mean costs (\$1916.40 per injured trainee). Less than 1% of trainees sustained high-cost injuries. A total of 2641 trainees (0.79%) had total direct medical costs over \$10,000, and 736 trainees (0.22%) required inpatient care.

#### **Conclusions and Recommendations:**

BCT-related injuries impose enormous economic costs on the U.S. Army. Approximately 40% of men and 61% of women sustained BCT-related injuries from 2002 to 2007. The most common types of injuries were sprains, strains, joint pain, and back pain. For each injured trainee, the Army incurs an estimated \$872 in additional direct medical costs, which amounts to approximately \$22 million annually.

While the Army's current administrative data systems make this type of Army-wide analysis possible, these systems would be more useful for research purposes if they recorded BCT start and end dates for all trainees, trainee characteristics such as physical fitness and smoking, and information about injury severity. Data documentation must also be improved to facilitate research.

An in-depth study of the training environments and attitudes about injury in each of the five training sites is needed to fully understand the reasons for variation in medical costs across training locations. If further research identifies specific factors that contribute to increased costs at certain locations, opportunities for reducing costs could be identified.

## Part 1:

## **Background and project overview**

## **Injuries in Army Basic Combat Training**

Physical training related injuries have been identified as a major threat to the readiness of the U.S. Armed Forces and a high priority for injury prevention. One of the earliest, most comprehensive studies of injuries in the U.S. military, *Injuries in the Military: A Hidden Epidemic* (Directorate of Epidemiology and Disease Surveillance, 1996), concluded that injuries, particularly those sustained during training, have a greater impact on military health and readiness than any other type of medical complaint. In a more recent examination of the most important and most preventable injury problems facing the U.S. Department of Defense, the Military Training Task Force identified physical training as the top priority for the military as a whole (Jones, Canham-Chervak et al., 2010). In a study incorporating estimates of limited duty days and service-specific data on injuries (Ruscio, Jones et al., 2010), physical training was again identified as a leading cause of injury in the military, and was ranked as the number one priority for the Army specifically.

Prevention of injuries during basic combat training (BCT) is of particular importance. Prior estimates indicate approximately one quarter of male U.S. Army trainees and approximately half of female Army trainees experience an outpatient-treated musculoskeletal injury during an eight-week period (Kaufman, Brodine et al., 2000). Prior research also indicates that trainees who are injured are three times more likely to be discharged from service during BCT than those who are not injured (Knapik, Canham-Chervak et al., 2001). While these studies provide evidence of a large impact, they do not capture the full burden of BCT injuries to the U.S. Army. Injuries are costly to treat and result in lost productivity. Prior studies have not attempted to enumerate the economic cost of BCT-related injuries service-wide in the U.S. Army.

#### **Project Purpose and Objectives**

The purpose of this project was to use data from the Total Army Injury and Health Outcomes Database (TAIHOD) to analyze the direct medical costs to the Army of injuries occurring during Basic Combat Training (BCT) and to identify factors associated with injuries having the greatest impact on the Army. The TAIHOD, maintained by the Military Performance Division of the U.S. Army Research Institute of Environmental Medicine (USARIEM), contains administrative data collected through several different Army data systems, including the Defense Manpower Data Center (DMDC), the Military Entrance Processing Command (MEPCOM), the Verification of Military Experience and Training (VMET) databases, the Military Health System Data Repository (MDR), and others. This project involved close collaboration between investigators from the University of Massachusetts-Amherst (UMass), Ramboll Environ, and USARIEM. The protocol

for this project was approved by the Institutional Review Boards of UMass and Ramboll Environ, and by the Human Use Review Committee at USARIEM.

This project was completed under two separate contracts. Work completed under the first contract identified and described a basic training cohort from the TAIHOD data (Sulsky et al., 2014) and identified likely risk factors for injury during BCT though a systematic review of the literature (Bulzacchelli et al., 2014). This report presents work completed under the second of the two contracts (Contract # W81XWH-13-C-0150). Under this contract, the project objectives were as follows:

Objective 1: Identify injuries and associated medical care and costs. To accomplish this objective, data from the Military Health System Data Repository (MDR) were linked to data from the DMDC, MEPCOM, and VMET so that medical encounters could be analyzed by trainee characteristics. An algorithm was developed for identifying injury-related medical care delivered during the appropriate risk period for each trainee. Injuries were categorized according to nature of injury and affected body region. Direct medical care costs related to injuries were estimated using an incremental cost analysis which compared total medical costs for injured trainees to total medical costs for non-injured trainees. Descriptive analysis summarized injuries, medical care, and costs by trainee and training characteristics. Part 2 of this report presents these analyses.

**Objective 2: Identify BCT injuries with substantial impact on the Army.** This objective involved ranking injuries occurring during BCT in terms of frequency and resource utilization, and examining costs for different levels of medical care. These rankings were used to define injuries with substantial impact on the Army and informed the selection of outcomes for the risk factor analysis. Part 3 of this report presents the rationale for selection of outcomes for the regression models developed under Objective 3.

Objective 3: Identify risk factors for BCT injuries with substantial impact on the Army. To achieve this objective, epidemiological analyses were conducted to identify risk factors for three outcomes: 1) any injury occurrence (yes/no); 2) the cost of medical care; 3) high-cost injuries. For these analyses, a series of regression models were developed and tested. Covariates included sociodemographic and training-related factors. Part 4 of this report presents these analyses.

Part 5 of this report discusses the implications of the project's findings.

## Part 2:

# Deliverable 1: Descriptive analysis of injuries, medical care, and costs

## **Descriptive Summary of Injuries and Injury-related Medical Care during BCT**

#### **Methods**

#### Data sources

The Total Army Injury and Health Outcomes Database (TAIHOD) was used to define a cohort of first-time trainees who started BCT between January 1, 2002 and September 30, 2007. Information from the U.S. Army Military Entrance Processing Command (MEPCOM) and the Verification of Military Experience and Training (VMET) databases was incorporated into the TAIHOD for this study in order to obtain details related to BCT dates and locations. Detailed descriptions of the data sets and the methods used to construct the cohort and estimating starting and ending dates of BCT are available elsewhere (Sulsky et al., 2014). Medical encounter data from the Military Health System Data Repository (MDR) were used to identify indications that injuries had occurred during BCT. MDR data include records from: 1) the Standard Inpatient Data Record (SIDR); 2) the Comprehensive Ambulatory/Professional Encounter Record (CAPER); 3) the Standard Ambulatory Data Record (SADR); 4) TRICARE Encounter Data – Institutional (TEDi) and TRICARE Encounter Data – Non-Institutional (TEDni); and 5) the Pharmacy Data Transaction Service (PDTS). Records from all sources were linked via unique study identifier (ID).

#### Definition of cohort and risk period

The injury ascertainment period for each trainee began with the estimated start of BCT and lasted until the end of the month during which training ended. Exact training end dates were not available. Therefore, the end of BCT was estimated by assigning the earliest of either the date of separation from the Army as recorded in the DMDC or the service end date from VMET, consisting of month and year, or, if no end date was recorded, the month and year occurring 70 days after the estimated start of BCT. This was meant to cover a risk period consisting of BCT, and excluding Advanced Individual Training (AIT), during which training activities may diverge by job type (military occupational specialty, MOS) and pay grade. It was also meant to include a sufficient interval following the conclusion of BCT, during which trainees might seek previously deferred care for injuries.

After all individuals who appeared to have started BCT within the study period were identified, the cohort was limited to apparent first-time trainees by excluding those with: 1) evidence of prior military service based on DMDC data; 2) evidence of previous BCT based on VMET or MEPCOM data; 3) records suggesting injuries treated in the Army medical system prior to the estimated BCT start date; and 4) records with implausible data (Figure 2.1).

## Identification of injuries

Injury-related medical encounters were identified from the MDR using primary or secondary International Classification of Diseases (ICD-9) diagnosis codes (Appendix Table A1) and any of four ICD-9 procedure codes (Appendix Table A2), alone or in combination (Appendix Table A3). Each medical encounter generates a separate record in the MDR. A trainee was considered to have suffered an injury during BCT if there was a record of medical care with one or more of the designated injury diagnosis or procedure codes recorded during the defined injury ascertainment period (i.e., risk period). Unique, incident events were defined by the first injury-related record for each individual. Trainees could have had more than one unique injury, and could have multiple treatment episodes for each unique injury recorded during BCT. Pharmacy data were not used to identify injuries because therapeutic class codes do not offer specific enough information. For example, non-steroidal anti-inflammatory drugs can be used for relief of pain or fever reduction, and the pharmacy records do not differentiate between indications for a given prescription.

Three concepts were used to assess "focal" injuries, or those likely to be of greatest importance:
1) injury frequency, based on the number of occurrences of each injury-related diagnosis (primary and/or secondary diagnosis for each person) based on the first injury-related medical encounter for each trainee; 2) injuries affecting the largest numbers of individual trainees; and 3) injuries resulting in high utilization or system burden. More specifically, we identified the ten conditions affecting the largest number of trainees; the ten diagnoses repeated most often per person affected; and the ten diagnoses leading to the highest utilization (i.e., most number of visits overall). Among these, diagnosis codes for physical and occupational therapy were heavily represented. Therefore, when physical and occupational therapy codes were recorded in the primary diagnosis field, we instead used the secondary diagnosis code from the same record to identify the reason for the therapy.

#### Statistical analysis

Data are described using simple frequency distributions and cross-tabulations by injury status. Results of chi-squared statistics and t-tests for comparisons of categorical and continuously measured data, respectively, are reported for reference. Data management and analyses were conducted using SAS software, Version 9.3 of the SAS System for Windows (Copyright 2002-2010 SAS Institute Inc, Cary, North Carolina).

## **Results**

#### *Injury-related medical encounters*

Based on DMDC, VMET and MEPCOM data, we identified 333,347 apparent first time trainees, 83.4% of whom were men and 16.6% of whom were women (Figure 2.1). From the initial library of 27,854,204 medical encounter records, we dropped records for excluded trainees, exact duplicate records and those with service dates outside of the injury ascertainment period, leaving 2,093,477 observations in the MDR dataset potentially relevant to care delivered during the injury ascertainment period (Figure 2.2).

Medical encounters for injury and non-injury related care are summarized in Table 2.1. The vast majority of trainees (94.19%) had had at least one medical encounter during BCT (260,566 men and 53,416 women trainees); only 5.81% of the cohort had no medical encounters during BCT. Among the entire cohort, 43.04% had at least one injury-related medical encounter during BCT (n=143,459), comprising 39.48% (n=109,760) of men and 60.95% (n=33,705) of women. In addition, 92.26% of trainees had medical encounters during BCT that apparently were not related to injuries. Injury-related medical encounters were identified by ICD-9 diagnosis codes for 43.03% of trainees, accounting for nearly all of the individuals injured (143,452 of 143,474) and 0.15% were identified based on injury-related ICD-9 procedure codes. Higher proportions of women than men had medical encounters for both injury and non-injury related care. Because injuries were more commonly experienced by women than men, all further analyses are stratified by gender.

#### Characteristics of injured trainees

Table 2.2 compares height, weight, age, and BMI measured on continuous scales of inches, pounds, years, and m/kg², respectively, for men and women with and without injury-related medical encounters during BCT. Except for weight among women, all differences between injured and non-injured trainees were statistically significant even though the point estimates were almost identical and certainly without clinical significance. For example, the mean (SD) weight for men with injuries was 171.20 (30.59) pounds, vs. 169.8 (28.80) pounds for men without injuries (p<0.0001). The difference in weight for women with and without injuries was not statistically significant (136.90 pounds vs. 136.70 pounds, p=0.51).

Likewise, comparisons of categorical data were nearly universally statistically significantly different between trainees with and without injuries, even when the distributions across categories were almost the same. The only comparison that was not statistically significantly different was between proportions of injured vs. not injured trainees with an injury-related medical encounter recorded prior to the estimated start of BCT. Because of the data processing rules applied to the MDR records, less than 0.05% of both groups (injured and non-injured) had such medical encounters, and the percentages were similar for men and women. The only comparison that differed by more than five percentage points, an arbitrarily selected criterion, was for injury status by training location among men: 34.5% of injured men vs. 26.7% of uninjured men were trained at Fort Benning, GA (p<0.0001, Table 2.3).

## Most common diagnoses

The same nine primary diagnoses were associated with the highest numbers of medical encounters for both men and women, although the percentages of visits accounted for by each reason varied by gender (Figure 2.3a and Figure 2.3b). The most common reason for medical encounters for both men and women was "pain in joint, lower leg", accounting for 14.7% of injury visits by men (n=44,111 encounters, Figure 2.3a) and 15.07% of injury visits by women (n=18,286 encounters, Figure 2.3b). The next two most common reasons for medical encounters for men were "pain in limb" and "pain in joint, ankle and foot", accounting for 7.75% and 6.1% of injury visits, respectively (Figure 2.3a). Among women, "pain in joint, ankle and foot" accounted for 9.31% of visits, and "pain in joint, pelvic region and thigh" accounted for 7.76% of visits (Figure 2.3b).

Among men, "fitting and adjustment of orthopaedic devices" was the tenth most common reason for medical encounters, accounting for 1.84% of visits (Figure 2.3a); this code was not among the top 10 reasons for medical encounters for women. "Acute upper respiratory infections of unspecified site" was the tenth most common reason for medical encounters for women, accounting for 1.82% of medical encounters, but was not among the top 10 reasons for medical encounters for men (Figure 2.3b).

After removing physical therapy codes, the ten diagnoses affecting the largest numbers of trainees were nearly identical to the ten diagnoses leading to the largest numbers of visits. Diagnoses were not mutually exclusive; the same trainee can have different types of injuries, and two or more conditions could be recorded at the same visit (Figure 2.4a and Figure 2.4b).

Table 2.1: Counts of medical encounters for injury and non-injury related care during Army Basic Training

	Totals (%)	Men (%)	Women (%)
First time trainees	333,347 (100)	278,045 (83.4)	55,302 (16.6)
Trainees with ≥1 medical encounter	313,982 (94.2)	260,566 (93.7)	53,416 (96.6)
Trainees with ≥1 non-injury-related medical encounter	307,555 (92.6)	255,138 (91.8)	52.417 (94.8)
Trainees with ≥1 injury-related medical encounter	143,459 (43.0)	109,760 (39.5)	33,705 (61.0))
Identified by ICD-9 diagnosis code	143,452 (43.0)	109,749 (39.5)	33,703 (60.9)
Identified by ICD-9 procedure code	494 (0.15)	383 (0.14)	111 (0.20)

Table 2.2: Mean age, weight, height and body mass index (BMI) for apparent first time Basic Combat trainees by injury status and gender.

			Men			Women						
	Injured (N=109,760; 39.48%)			Not injured (N=168,285; 60.52%)			Injured =33,699; 60.94%)		Not injured (N=21,603; 39.06%)			
	N	Mean (Std D)	N	Mean (Std D)	p-value**	N	Mean (Std D)	N	Mean (Std D)	p-value**		
Age (years)	109,760	21.1 (3.65)	168,285	20.6 (3.31)	<.0001	33,699	20.79 (3.71)	21,603	20.31(3.36)	<.0001		
Weight (pounds)	109,474	171.2 (30.59)	167,758	169.8 (28.80)	<.0001	33,613	136.9 (21.16)	21,527	136.7 (20.20)	0.5109		
Height (inches)	109,522	69.25 (2.75)	167,831	69.17 (2.7)	<.0001	33,629	63.98 (2.59)	21,537	64.03 (2.54)	0.0206		
Body Mass Index (kg/m²)	109,474	25.04 (3.92)	167,757	24.91 (3.70)	<.0001	33,613	23.45 (2.96)	21,527	23.40 (2.81)	0.0306		

<sup>\*</sup>Satterthwaite chi-squared p-value

Table 2.3: Demographic and training related characteristics of apparent first-time Basic Combat trainees, by injury status and gender

			Men			bat trainees, by injury status and gender  Women					
	Injur	ed	Not inj	ured		Injur	ed	Not inj	ured		
	(N=109,760; 39.48%)		(N=168,285	; 60.52%)		(N=33,699; 60.94%)		(N=21,603; 39.06%)			
Demographic/training characteristics	N	%	N	%	p-value*	N	%	N	%	p-value*	
Race/ethnicity											
White	80,209	73.08	118,873	70.64	<.0001	19,215	57.02	11,379	52.67	<.0001	
Black	12,422	11.32	20,400	12.12		8,078	23.97	5,581	25.83		
Hispanic	11,451	10.43	19,245	11.44		4,395	13.04	3,092	14.31		
Asian	4,454	4.06	7,778	4.62		1,400	4.15	1,078	4.99		
American Indian	1,103	1	1,807	1.07		560	1.66	437	2.02		
Other	121	0.11	177	0.11		50	0.15	35	0.16		
Unknown	0	0	5	0		1	0	1	0		
Body Mass Index (BMI) in kg/m²											
Underweight: BMI<18.5	2,805	2.56	3,510	2.09	<.0001	1,369	4.06	762	3.53	<.0001	
Normalweight:18.5≤BMI<25	54,693	49.83	87,135	51.78		22,223	65.95	14,815	68.58		
Overweight: 25≤BMI<30	38,610	35.18	60,374	35.88		9,531	28.28	5,772	26.72		
Obese: BMI≥30	13,652	12.44	17,266	10.26		576	1.71	254	1.18		
Education level in years											
Less than 12	32,453	29.57	44,073	26.19	<.0001	7,304	21.67	4,342	20.1	<.0001	
12	65,082	59.29	103,162	61.3		21,455	63.67	13,706	63.44		
13 or 14	7,084	6.45	11,402	6.78		3,022	8.97	1,923	8.9		
15 or 16	4,868	4.44	9,181	5.46		1,805	5.36	1,514	7.01		
Greater than 16	273	0.25	467	0.28		113	0.34	118	0.55		
BCT Location											
Fort Benning, GA	37,814	34.45	44,899	26.68	<0.0001	11	0.03	11	0.05	<0.0001	
Fort Jackson, SC	19,983	18.21	40,053	23.8		19,870	58.96	13,050	60.41		
Fort Sill, OK	14,498	13.21	19,086	11.34		23	0.07	31	0.14		
Fort Leonard Wood, MO	13,760	12.54	24,662	14.65		10,536	31.27	5,969	27.63		
Fort Knox, KY	12,665	11.54	21,088	12.53		31	0.09	42	0.19		
Unknown	11,040	10.06	18,497	10.99		3,228	9.58	2,500	11.57		

Table 2.3, continued

Table 2.3, continued			Men			Women					
	Injured (N=109,760; 39.48%)		Not inju (N=168,285;			Injured (N=33,699; 60.94%)		Not injured (N=21,603; 39.06%)			
Demographic/training characteristics	N	%	N	%	p-value*	N	%	N	%	p-value*	
Injury-related medical encounter before BCT start date											
Yes	94	99.91	162	99.9	0.3666	48	99.86	45	99.79	0.0651	
No	109,666	0.09	168,123	0.1		33,651	0.14	21,558	0.21		
Medical/Physical Accession Waiver											
Yes	7,008	6.38	9,710	5.77	<.0001	2,054	6.1	1,231	5.7	0.0541	
No	102,752	93.62	158,575	94.23		31,645	93.9	20,372	94.3		
Start of BCT Year											
2002	15,490	14.11	24,390	14.49	<.0001	5,093	15.11	3,601	16.67	<.0001	
2003	19,843	18.08	29,948	17.8		6,592	19.56	4,281	19.82		
2004	21,180	19.3	31,748	18.87		6,527	19.37	4,310	19.95		
2005	18,475	16.83	26,858	15.96		5,262	15.61	3,257	15.08		
2006	19,097	17.4	30,753	18.27		5,733	17.01	3,448	15.96		
2007	15,675	14.28	24,588	14.61		4,492	13.33	2,706	12.53		
Month BCT started											
January	11,564	10.54	15,996	9.51	<.0001	3,193	9.48	1,692	7.83	<.0001	
February	8,817	8.03	11,645	6.92		2,784	8.26	1404	6.5		
March	8,523	7.77	10,576	6.28		2,216	6.58	1,229	5.69		
April	9,730	8.86	11,833	7.03		3,075	9.12	1,580	7.31		
May	9,530	8.68	12,991	7.72		2,780	8.25	1,734	8.03		
June	10,690	9.74	19,730	11.72		3,280	9.73	2,601	12.04		
July	11,574	10.54	21,323	12.67		3,704	10.99	2,829	13.1		
August	12,590	11.47	21,232	12.62		4,300	12.76	2,896	13.41		
September	10,078	9.18	17,041	10.13		3,285	9.75	2,233	10.34		
October	8,006	7.29	13,358	7.94		2,445	7.26	1,829	8.47		
November	7,228	6.59	10,746	6.39		2,227	6.61	1,401	6.49		
December	1,430	1.3	1,814	1.08		410	1.22	175	0.81		

Table 2.3, continued

			Men			Women					
	Injured (N=109,760; 39.48%)		Not inj (N=168,285			Injur (N=33,699;		Not injured (N=21,603; 39.06%)			
Demographic/training characteristics	N	%	N	%	p-value*	N	%	N	%	p-value*	
Year and Quarter BCT started											
2002 Quarter 1	1,113	1.01	1,784	1.06	<.0001	323	0.96	198	0.92	<.0001	
2002 Quarter 2	5,671	5.17	8,150	4.84		1,731	5.14	1,226	5.68		
2002 Quarter 3	5,253	4.79	9,025	5.36		1,827	5.42	1,347	6.24		
2002 Quarter 4	3,453	3.15	5,431	3.23		1,212	3.6	830	3.84		
2003 Quarter 1	5,718	5.21	7,446	4.42		1,969	5.84	1,168	5.41		
2003 Quarter 2	5,091	4.64	7,373	4.38		1,625	4.82	1,001	4.63		
2003 Quarter 3	5,451	4.97	8,895	5.29		1,928	5.72	1,289	5.97		
2003 Quarter 4	3,583	3.26	6,234	3.7		1,070	3.18	823	3.81		
2004 Quarter 1	6,465	5.89	8,518	5.06		1,784	5.29	1,099	5.09		
2004 Quarter 2	5,896	5.37	8,363	4.97		1,842	5.47	1,192	5.52		
2004 Quarter 3	5,379	4.9	9,882	5.87		1,786	5.3	1,376	6.37		
2004 Quarter 4	3,440	3.13	4,985	2.96		1,115	3.31	643	2.98		
2005 Quarter 1	4,822	4.39	5,415	3.22		1,233	3.66	504	2.33		
2005 Quarter 2	4,214	3.84	6,468	3.84		1,267	3.76	788	3.65		
2005 Quarter 3	6,152	5.6	10,090	6		1,865	5.53	1,391	6.44		
2005 Quarter 4	3,287	2.99	4,885	2.9		897	2.66	574	2.66		
2006 Quarter 1	5,407	4.93	7,309	4.34		1,416	4.2	582	2.69		
2006 Quarter 2	4,805	4.38	7,654	4.55		1,462	4.34	915	4.24		
2006 Quarter 3	5,984	5.45	11,407	6.78		2,067	6.13	1,416	6.55		
2006 Quarter 4	2,901	2.64	4,383	2.6		788	2.34	535	2.48		
2007 Quarter 1	5,379	4.9	7,745	4.6		1,468	4.36	774	3.58		
2007 Quarter 2	4,273	3.89	6,546	3.89		1,208	3.58	793	3.67		
2007 Quarter 3	6,023	5.49	10,297	6.12		1,816	5.39	1,139	5.27		

<sup>\*</sup>Pearson chi-squared p-value

Figure 2.1: Finalizing the cohort of apparent first-time Basic Combat trainees, accounting for medical data

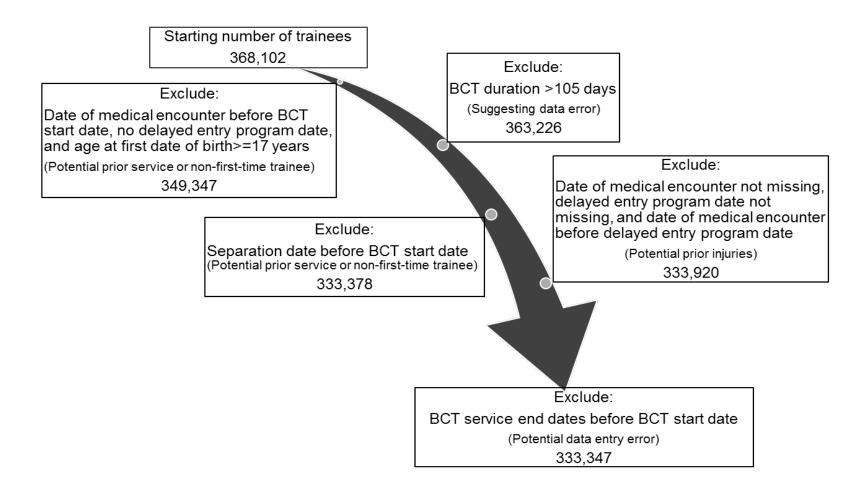


Figure 2.2: Handling of Medical Data Repository Records

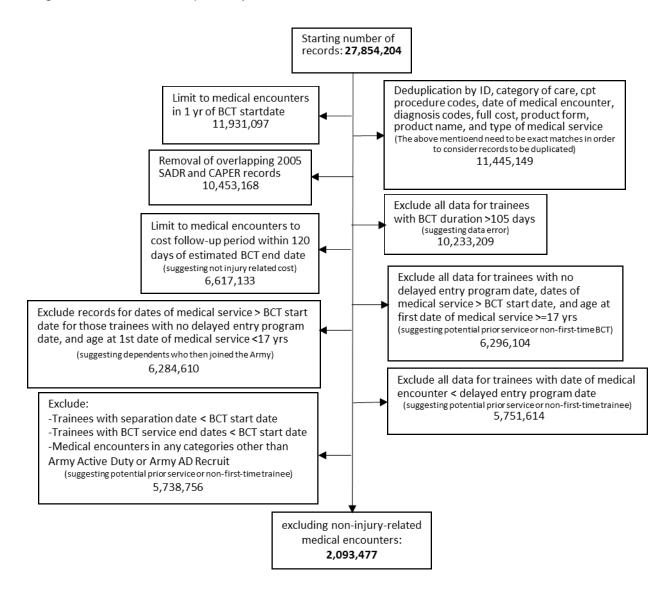


Figure 2.3a. Ten most common reasons medical encounters among men with injuries during BCT

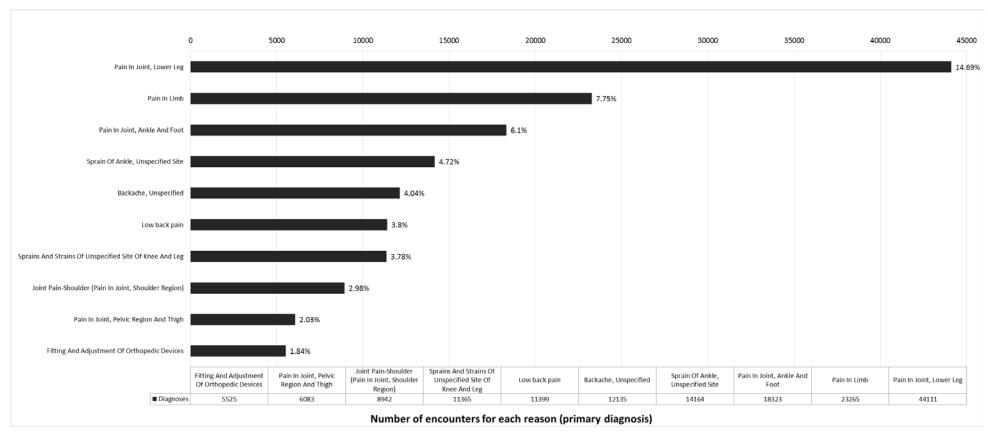


Figure 2.3b. Ten most common reasons for medical encounters among women with injuries during BCT

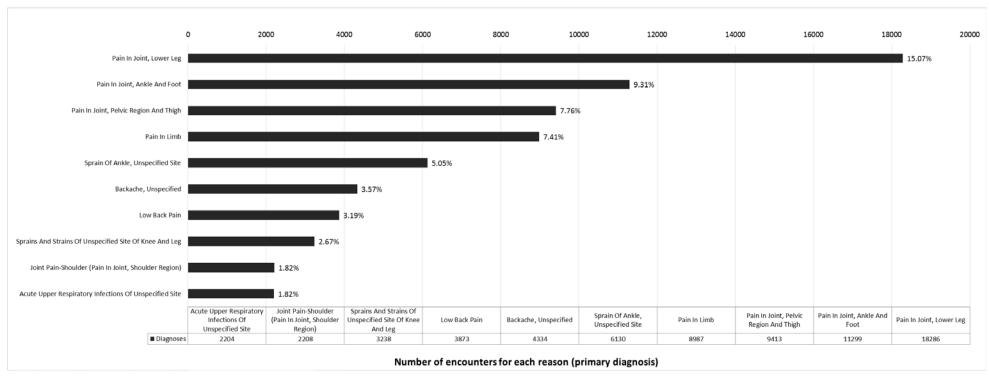


Figure 2.4a. Ten most common primary diagnoses: Men

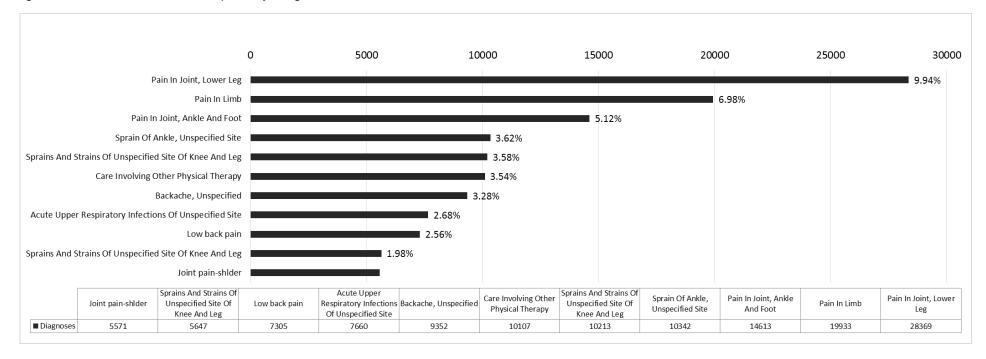
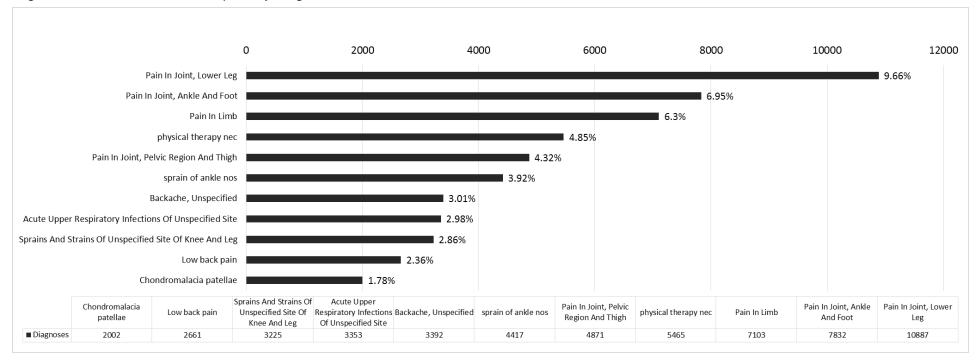


Figure 2.4b. Ten most common primary diagnoses: Women



## **Descriptive Summary of Medical Costs during BCT**

#### Methods

Injury related medical costs were estimated using an incremental cost analysis. Specifically, medical costs of injured trainees were compared to medical costs of uninjured trainees, controlling for potential confounding variables using multiple regression. The difference in mean cost for an injured vs. uninjured trainee is the incremental cost of injury. This cost analysis used the same basic training cohort, ascertainment period, and medical encounters discussed above.

#### Outcome measure and data sources

The outcome of interest was the Army's total direct cost of medical care, defined as the medical care expenditures for diagnosis, treatment, and rehabilitation. Cost data were drawn from five data systems capturing different types of encounters. Records for each individual were linked over these sources of data using the unique study identifier (ID). All costs were converted to 2000 US dollars using the Consumer Price Index for All Urban Consumers (CPI-U). Costs for inpatient admissions were taken from the Standard Inpatient Data Record (SIDR). Cost of outpatient care data were taken from the Comprehensive Ambulatory/Professional Encounter Record (CAPER) and the Standard Ambulatory Data Record (SADR). The total amount paid by TRICARE, as reported in the TRICARE Encounter Data—Non-Institutional (TEDni) and Institutional (TEDni)—was added to the costs reported in SIDR and CAPER/SADR.

Total direct medical cost per trainee (total\_cost) was calculated by summing the costs from each of these sources over the ascertainment period. Each data source has a different variable capturing costs (Table 2.4). Total cost is the sum of the variables "F\_Cost," "t\_paid," "fcdirect," and "paid."

Table 2.4. Cost variable names by data source

Data Source	Variable Name
CAPR/SADR	F_Cost
TDni	t_paid
SIDR	fcdirect
TEDi	paid

Pharmacy costs were not included in the total cost calculation because it was difficult to determine the actual expenditure on drugs from the Pharmacy Data Transaction Service (PDTS) data. However, recent research suggests that pharmaceuticals are likely to make up only a very small percentage of total direct medical expenditures for injuries. Prior studies estimate that pharmaceuticals account for between 2.4% (95% CI: 2.0, 2.9) and 3.0% (95% CI: 2.1, 4.2) of total direct medical costs of injuries among civilian workers in the U.S. (Shi, Wheeler, Lu, Bishai, Stallones, & Xiang, 2015; Xiang, Shi, Wheeler, Zhao, Wilkins III, & Smith, 2012). Excluding pharmacy costs therefore should not have a large effect on the incremental cost estimates produced here.

## Main independent variable

The main independent variable for this analysis was injury status. The injury indicator variable developed for the epidemiologic analysis (described above) was used to identify injured vs. uninjured trainees.

#### Unadjusted incremental cost calculation

To calculate the additional costs attributable to an injury during training, the mean incremental cost of injury was calculated as the difference between the mean costs of those with an injury and the mean cost of those without an injury, as illustrated in the following equation, where M=total number of injured individuals and N=total number of non-injured individuals (Barnett and Nurmagambetov, 2011; Jo, 2014):

$$mean\ incremental\ cost_{unadjusted} = \left(\frac{\sum_{i=1}^{M} total\_cost_{i}}{M}\right)_{injured} - \left(\frac{\sum_{j=1}^{N} total\_cost_{i}}{N}\right)_{not-injured}$$

Mean incremental cost was calculated overall and separately for men and women because health care utilization for treatment of physical activity-related injury differs by gender (Kaeding, Borchers, Oman, & Pedroza, 2014). The unadjusted incremental cost does not account for factors other than injury status that can influence medical costs. Therefore, the unadjusted incremental cost was not used to estimate the total cost to the Army of BCT-related injuries.

#### Adjusted incremental cost calculation

To account for the effects of sociodemographic characteristics, anthropometric characteristics, accession characteristics, and training location on medical costs, an adjusted mean incremental cost of injury was calculated using multiple regression. The cost data were extremely right-skewed. Therefore, total cost per individual was first transformed using a natural logarithm, which resulted in normally distributed log-transformed cost data (Figure 2.5). Multiple linear regression was then performed, with the log-transformed total direct cost as the outcome and injury status as the predictor of interest. The analysis was stratified by gender, and covariates were selected based on their level of association with injury risk (discussed in Part 4 under Outcome 1). Specifically, covariates included BMI, age, race/ethnicity, marital status, education level, medical waiver at accession, and BCT location. The gender-specific adjusted cost estimates were used to estimate the total cost to the Army of BCT-related injuries, as described below.

#### Total cost calculation

The total direct cost to the Army of BCT-related injuries was estimated by multiplying the gender-specific adjusted mean incremental cost of injury by the gender-specific injury incidence, and then summing across genders (Box 2.1). Total cost was estimated for the entire study period and annually.

## Descriptive statistical analysis

Mean total costs and mean incremental costs were calculated by injury status and gender. Mean total costs were also summarized by trainee characteristics (gender, BMI, age, race/ethnicity, marital status, education level, medical waiver, and training location). Lastly, mean total costs for the focal injuries described above (excluding the non-injury diagnoses) were calculated by training location. Specifically, mean costs, pooled for men and women, are presented by training location for joint pain in leg, physical therapy necessary, pain in limb, joint pain in ankle/foot, sprain of ankle, backache, sprain of knee & leg, joint pain in pelvis, lumbago, and joint pain in shoulder.

Figure 2.5. Distribution of log medical costs by injured status and gender

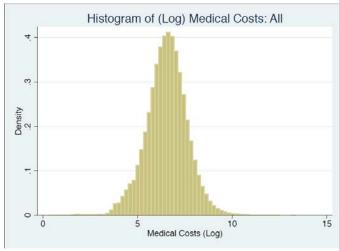


Figure 2.5a

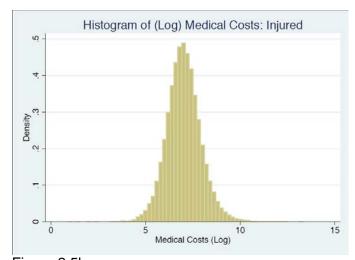


Figure 2.5b

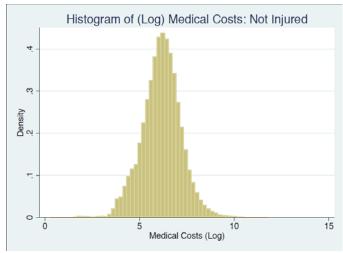


Figure 2.5c

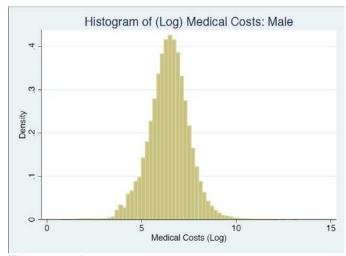


Figure 2.5d

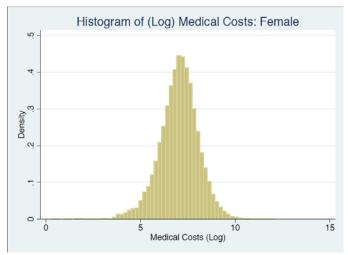


Figure 2.5e

#### Results

#### Unadjusted incremental cost

Overall, the mean total direct medical cost per trainee was \$1207.90 (Table 2.5). Mean total cost differed by injury status, with costs being higher for injured trainees than non-injured trainees. The mean medical cost per injured trainee was \$1755.00, compared to \$794.60 per non-injured trainee. Thus, the overall unadjusted incremental cost of injury was \$960.40.

Mean total cost differed by gender, with costs being higher for women than men (Table 2.5). The unadjusted mean cost per male trainee was \$1085.80, compared to \$1821.70 per female trainee. The incremental cost of injury also differed by gender. On average, injured males incurred costs \$846.40 higher than non-injured males (\$1598.10 per injured male vs. \$751.70 per non-injured male), whereas on average, injured females incurred costs \$1136.70 higher than non-injured females (\$2265.80 per injured female vs. \$1129.10 per non-injured female trainee).

Table 2.5. Summary of mean medical costs by gender and injured status, 2000 US dollars

	All	Injured	Not Injured	Unadjusted	Adjusted*
	(Injured &			Incremental	Incremental
	Non-Injured)			Cost	Cost
All (Both M & F)	1207.90	1755.00	794.60	960.40	872.20
Female	1821.70	2265.80	1129.10	1136.70	1093.70
Male	1085.80	1598.10	751.70	846.40	825.90
Difference	735.90	667.70	377.40	290.30	267.80
(Female – Male)					

<sup>\*</sup>Adjusted for BMI, age, race/ethnicity, marital status, education level, medical waiver at accession, and BCT location

#### Adjusted incremental cost

After controlling for BMI, age, race/ethnicity, marital status, education level, medical waiver at accession, and BCT location, the adjusted incremental cost of injury was \$872.20 overall (Table 2.5). The adjusted incremental cost of injury differed by gender, but slightly less so than the unadjusted incremental costs. For female trainees, the adjusted incremental cost of injury was \$1093.70. For male trainees, the adjusted incremental cost of injury was \$825.90.

#### Costs by trainee characteristics

Tables 2.6, 2.7, and 2.8 show unadjusted mean medical costs by trainee characteristics and injury status for all trainees, males, and females, respectively. Most patterns were similar for both genders. For both men and women, mean costs increased with increasing age, regardless of injury status. Also for both men and women, mean costs were highest for those with less than a high school education, those who were divorced, and those with a medical waiver at accession. Hispanics had the lowest mean costs of any racial or ethnic group (other than "unknown") for both men and women.

Patterns differed by gender for BMI and training location. For women, costs increased steadily with increasing BMI. However, for men, although costs were still highest for those with BMI > 30, the next highest costs were incurred by those with BMI < 18.5.

Of the five BCT locations that train men, the highest mean costs were in Fort Knox (\$1233.60 per male trainee), and the lowest mean costs were in Fort Leonard Wood (\$939.00 per male trainee). However, both BCT locations that train women had similar costs: \$1821.60 per female trainee at Fort Jackson, and \$1865.40 per female trainee at Fort Leonard Wood.

#### Costs by focal injury and training location

Of the ten most common injury diagnoses, the diagnosis with the highest overall mean cost was "physical therapy necessary" (\$2522.30 per trainee), followed by "pain in joint, pelvis & thigh" (\$2512.60 per trainee). The diagnoses with the lowest overall mean costs were "pain in joint, lower leg" (\$1851.20 per trainee) and "sprain of ankle" (\$1852.70 per trainee).

Mean costs varied by type of injury and training location (Table 2.9). The type of injury with the largest variation in mean cost across training locations was "backache, unspecified," for which the cost was lowest at Fort Sill (\$2047.40 per trainee) and highest at Fort Knox (\$2968.60 per trainee), a difference of \$921.20 or 45%. The type of injury with the most consistent mean cost across training locations was "pain in joint, pelvis & thigh," for which the cost was lowest at Fort Sill (\$2251.50 per trainee) and highest at Fort Leonard Wood (\$2559.20 per trainee), a difference of \$307.70 or 13.7%.

For injured trainees overall, Fort Benning had the lowest overall mean costs (\$1566.50 per injured trainee), and Fort Jackson had the highest overall mean costs (\$1916.40 per injured trainee). For trainees who were not injured, mean medical costs were very similar across training locations, ranging from \$769.90 per uninjured trainee at Fort Leonard Wood to \$826.70 per uninjured trainee at Fort Knox, a difference of only \$56.80 or 7.4%.

#### Total cost estimates

Box 2.1 shows the calculation used to estimate the total cost to the Army of BCT-related injuries. The estimated total direct medical cost to the Army of BCT-related injuries for the entire study period is \$127,507,380. The estimated annual direct medical cost to the Army of BCT injuries is \$21,929,700.

Box 2.1

Calculation of estimated total cost to the Army of BCT-related injuries for entire study period

Total Cost	=	Adjusted Incremental Cost for Females	X	Number of Injured Females	+	Adjusted Incremental Cost for Males	X	Number of Injured Males
	=	\$1093.70	х	33,699	+	\$825.90	X	109,760
	=	\$36,856,596.30	) for	females	+	\$90,650,784.	00 f	or males
	=	\$127,507,380.3	30					

## Calculation of estimated annual cost to the Army of BCT-related injuries

Annual Cost	= Ir	Adjusted ncremental Cost for Females	X	Mean Annual Number of Injured Females*	+	Adjusted Incremental Cost for Males	x	Mean Annual Number of Injured Males*
	=	\$1093.70	X	5841.4	+	\$825.90	х	18,817
	=	\$ 6,388,739.1	8 fo	r females	+	\$15,540,960	0.30	for males
	=	\$21,929,699.	50					

<sup>\*</sup>The mean annual number of injuries is taken from complete years only (2002-2006)

Table 2.6. Mean medical costs, 2000 US dollars, males and females

	Not	•	
	Injured	Injured	All
Total	794.60	1755.00	1207.90
вмі			
<18.5	794.60	1783.70	1283.40
18.5-25	794.00	1746.90	1203.80
25-30	789.50	1758.00	1197.50
>30	817.20	1779.70	1248.50
Age			
17-18	761.90	1716.00	1138.70
19-20	809.00	1739.80	1204.70
21-24	798.30	1729.70	1212.80
>25	838.40	1899.90	1365.70
Race			
Unknown	686.40	271.80	627.20
White	805.70	1792.00	1232.70
Black	822.80	1717.10	1217.20
Hispanic	727.80	1555.70	1071.40
Asian, Am Indian & Other	734.00	1788.10	1160.50
Marital Status			
Single	786.60	1725.10	1179.90
Married	833.90	1852.10	1320.20
Divorced	910.50	2113.80	1596.70
<b>Education Level</b>			
<high school<="" td=""><td>824.60</td><td>1826.00</td><td>1276.20</td></high>	824.60	1826.00	1276.20
High School	791.70	1731.40	1191.50
>High School	749.10	1709.20	1143.60
Medical Waiver			
No Waiver	789.60	1750.10	1201.60
Medical Waiver	876.40	1827.30	1307.20
<b>Training Location</b>			
Fort Benning, GA	787.70	1566.50	1143.70
Fort Jackson, SC	814.00	1916.40	1286.60
Fort Sill, OK	823.80	1669.90	1189.10
Fort Leonard Wood, MO	769.90	1781.50	1217.40
Fort Knox, KY	826.70	1911.10	1233.60
Unknown & Other	737.80	1706.40	1129.80

Table 2.7. Mean medical costs, 2000 US dollars, males

	Not		
	Injured	Injured	Al
Total	751.70	1598.10	1085.80
ВМІ			
<18.5	745.00	1626.50	1136.60
18.5-25	738.70	1551.80	1052.20
25-30	753.20	1611.00	1087.80
>30	813.30	1741.60	1223.20
Age			
17-18	712.10	1541.40	1004.80
19-20	770.60	1586.70	1089.60
21-24	760.90	1584.90	1100.6
>25	786.70	1740.10	1228.0
Race			
Unknown	649.50	-	649.5
White	766.00	1640.00	1118.1
Black	753.20	1498.80	1035.4
Hispanic	690.80	1397.20	954.3
Asian, Am Indian & Other	694.20	1630.00	1038.4
Marital Status			
Single	746.60	1582.50	1069.6
Married	778.60	1655.10	1157.4
Divorced	807.50	1800.20	1309.1
Education Level			
<high school<="" td=""><td>792.20</td><td>1689.50</td><td>1172.7</td></high>	792.20	1689.50	1172.7
High School	748.40	1572.30	1067.1
>High School	682.60	1493.30	980.4
Medical Waiver			
No Waiver	747.60	1593.10	1080.10
Medical Waiver	817.80	1671.70	1175.7
Training Location			
Fort Benning, GA	787.70	1566.50	1143.70
Fort Jackson, SC	711.70	1557.70	993.30
Fort Sill, OK	823.80	1669.90	1189.10
Fort Leonard Wood, MO	666.60	1427.20	939.00
Fort Knox, KY	826.70	1911.10	1233.60
Unknown & Other	704.10	1539.50	1016.40

Table 2.8. Mean medical costs, 2000 US dollars, females

	Not							
	Injured	Injured	All					
Total	1129.10	2265.80	1821.70					
вмі								
<18.5	1023.20	2105.70	1718.60					
18.5-25	1119.80	2227.20	1784.30					
25-30	1168.90	2353.50	1906.70					
>30	1081.60	2681.50	2191.90					
Age								
17-18	1074.50	2167.50	1697.50					
19-20	1140.90	2276.00	1836.10					
21-24	1140.30	2269.90	1854.50					
>25	1271.00	2466.10	2072.30					
Race								
Unknown	870.90	271.80	571.30					
White	1220.90	2426.60	1978.10					
Black	1077.10	2052.80	1654.20					
Hispanic	957.70	1968.70	1551.20					
Asian, Am Indian & Other	984.40	2234.70	1690.30					
Marital Status								
Single	1102.00	2215.60	1760.20					
Married	1255.40	2400.90	2029.20					
Divorced	1390.90	2656.80	2319.50					
<b>Education Level</b>								
<high school<="" td=""><td>1153.40</td><td>2432.80</td><td>1955.80</td></high>	1153.40	2432.80	1955.80					
High School	1117.80	2214.10	1786.70					
>High School	1142.90	2243.30	1782.80					
Medical Waiver								
No Waiver	1116.50	2259.70	1812.00					
Medical Waiver	1338.10	2358.50	1976.10					
<b>Training Location</b>								
Fort Jackson, SC	1127.90	2277.10	1821.60					
Fort Leonard Wood, MO	1196.60	2244.30	1865.40					
Unknown & Other	979.00	2266.10	1700.20					

Table 2.9. Mean medical costs of focal injuries by training location, 2000 UD dollars, males and females

		Fort			Fort			Difference Between Highest & Lowest	
	All Locations	Benning, GA	Fort Jackson, SC	Fort Sill, OK	Leonard Wood, MO	Fort Knox, KY	Unknown/ Other	\$	%
Total	1207.90	1143.70	1286.60	1189.10	1217.40	1233.60	1129.80	142.90	12.5
Not Injured	794.60	787.70	814.00	823.80	769.90	826.70	737.80	56.80	7.4
Injured	1755.00	1566.50	1916.40	1669.90	1781.50	1911.10	1706.40	349.90	22.3
Physical therapy necessary	2522.30	2216.30	2536.50	2762.20	3011.50	2424.40	2364.80	795.20	35.9
Pain in joint, pelvis & thigh	2512.60	2449.10	2555.90	2251.50	2559.20	2529.50	2373.60	307.70	13.7
Lumbago (low back pain)	2360.70	2206.90	2557.10	2173.60	2394.70	2499.00	2126.30	383.50	17.6
Backache, unspecified	2264.30	2225.00	2257.00	2047.40	2374.10	2968.60	2186.20	921.20	45.0
Joint pain-shoulder	2093.50	1845.50	2189.20	2047.20	2248.80	2437.70	2042.50	592.20	32.1
Pain in limb	2026.50	1702.50	2266.00	1958.50	2153.20	2198.40	1944.60	563.50	33.1
Pain in joint, ankle & foot	1964.40	1674.10	2207.20	1720.60	2026.70	2148.40	1894.70	533.10	31.8
Sprain/strain of knee & leg	1899.20	1658.90	2092.80	1999.30	1955.60	1968.10	1871.50	433.90	26.2
Sprain of ankle	1852.70	1591.30	2094.70	1883.50	1863.60	1756.90	1855.30	503.40	31.6
Pain in joint, lower leg	1851.20	1593.30	2026.80	1792.80	1891.90	2079.00	1792.40	485.70	30.5

Bold indicates highest mean cost for that type of injury, italics indicates lowest mean cost for that type of injury

## Part 3:

# Deliverable 2: Rationale for selection of outcomes for predictive models

Injuries impact the Army because they can affect warfighter readiness and can result in large medical costs. Three outcomes were selected for further analysis in order to identify risk factors for injuries having a substantial impact on the Army, either because of their frequency of occurrence or the medical costs associated with their treatment. The three outcomes, along with the rationale for their selection, are described below.

### Outcome 1: Any injury occurrence

A dichotomous indicator for "any injury" occurrence (yes/no) was used as the outcome for the first predictive model because it casts the widest net, capturing injuries of any severity, frequency, and cause. This broad outcome is commonly used in injury research. Of the studies on risk factors for BCT-related injury reviewed in Bulzacchelli et al., 2014, 36.8% used "any injury" or "all injures" as at least one outcome. By our definition used in this study, any injury identified required at least one medical encounter and thus has some impact on the Army in terms of health care utilization. This outcome allows identification of individual characteristics and training factors associated with increased risk of any injury.

## Outcome 2: Cost of medical care

Injuries can be costly to treat. A continuous measure of total direct medical cost per trainee was used as the outcome for the second predictive model. Because of the high frequency of certain injuries, even a modest increase in cost per injured trainee can add up to a substantial cost for the Army. Using total direct medical care cost as a continuous outcome allows identification of factors significantly associated with any increased cost.

## Outcome 3: High-cost injuries

Some trainees sustain injuries that are extremely costly to treat. Although fewer in number, the high cost per injury means these cases have a substantial impact on the Army. These injuries are the focus of this analysis. A high-cost injury is defined here as an injury resulting in direct medical costs greater than \$10,000 per trainee or an injury necessitating inpatient care. The \$10,000 cut-off was determined by examining the frequency distribution of direct medical costs per trainee, which is extremely right-skewed. The inpatient care indicator was selected because of the implications of an inpatient stay for injury severity and intensity of health care resource utilization.

## Part 4:

# Deliverable 3: Predictive models of risk factors for injuries with substantial impact to the U.S. Army

#### Outcome 1: Any injury occurrence

#### **Methods**

For this analysis, the outcome was defined as the occurrence of at least one injury-related medical encounter recorded during the injury ascertainment period (i.e., any BCT-related injury, yes or no). Because the descriptive analyses clearly showed differences in risk of injury for men and women undergoing BCT, all subsequent analyses were completed separately by sex. We elected to use the split sample approach to build and validate the final predictive models. The training and testing data sets thus consisted of a 50% random sample of the cohort, drawn separately for men and for women (Dahl, Grotle, Saltyte Benth, & Natvig, 2008; Kleinbaum, Kupper, & Muller, 1988).

Using the training data sets, we completed preliminary analyses to calculate the Spearman (for categorical variables) and Pearson (for continuously measured variables) correlation coefficients for all pairs of demographic and training related variables included in the available data sets. Any pair of highly correlated variables (r> 0.50) was inspected and one member of the pair was selected for use in model building, based on the face validity of its potential association with injury.

To identify the initial set of covariates for the multivariable logistic regression model, we set up individual logistic regression models consisting of the outcome and each potential covariate. Because of the large sample size, traditional significance testing was not informative. Therefore, all covariates independently associated with at least 50% change from baseline risk (OR≥1.5 or ≤0.67) were retained in the first candidate multivariable model due to the apparent influence on risk. Covariates not associated with at least a 50% change in injury risk were excluded from the first candidate multivariable model, but we assessed their effect by adding each back into the model, one at a time. If the addition of any term resulted in at least 15% relative change in any regression coefficient ( $\Delta\beta\% \ge 15$ ), that term was retained in the model. Finally, we estimated the log likelihood test to identify any term that did not materially affect the risk estimates (based on Δβ%) but that contributed information to the model based on statistical significance. Once the final set of covariates was identified, we assessed the sensitivity of the model to alternative parameterizations of height and weight. Specifically, we tested the effects of height, weight, BMI, and an indicator variable for unusual height defined as height above or below the sexspecific mean ± the sex-specific standard deviation for height, based on data for the whole cohort. We evaluated the contribution of each of these parameterizations as separate terms and in combinations determined by  $\Delta\beta\%$  and the results of the log-likelihood test.

We performed the Hosmer and Lemeshow Goodness-of-Fit test on the final model, including alternatives based on sensitivity tests. We also estimated the positive and negative predictive values (PPV and NPV) for the final model and its alternatives and estimated the ability of the

model and its alternatives to discriminate between injured and non-injured trainees based on the area under ROC curves.

The final models for men and women were re-run in the respective testing sets, and all model diagnostics were repeated (Hosmer and Lemeshow Goodness-of-Fit tests, PPV and NPV, area under the ROC curves). We compared the estimated risks and results of all model diagnostics for models run on the training and testing data sets to assess the stability and validity of the model developed in the training data sets. Data management and analyses were conducted using SAS software, Version 9.3 of the SAS System for Windows (Copyright 2002-2010 SAS Institute Inc, Cary, North Carolina).

#### Results

The training and testing datasets returned near-identical results for point estimates, upper and lower 95% confidence intervals, and values for all model diagnostics. Therefore, all results are presented for the testing data set, which consisted of 139,020 men and 27,651 women. Similar to the cohort as a whole, 39% of men (n=54,784) and 61% of women (n=16,833) in the testing dataset sustained at least one injury during BCT (Table 4.1).

## **Bivariate Comparisons**

All comparisons of categorized data for injured vs. non-injured trainees were statistically significantly different, even when the point estimates across categories were nearly the same for those with and without injury. A few comparisons differed by five or more percentage points, an arbitrarily selected criterion, as follows: Among men, 57% of those with medical care for injury during BCT were in enlisted grade 1 (E1), compared with 51.5% of those without injuries; 34.5% of the injured vs. 26.7% of the non-injured men trained at Ft. Benning, and 18.3% of the injured vs. 23.7% of the non-injured trained at Ft. Jackson. Graduation from BCT could not be confirmed for 53% of men with injuries during BCT, compared with 45% of men without injuries (Table 4.1).

Among women, using the same arbitrary criterion of five percentage points difference between injured and non-injured trainees, we found 57% of those with medical care for injuries during BCT were white, compared with 52% of those without injuries. Women treated for injuries during BCT were less likely to be single (77.9% vs. 84.4%), and more likely to be married (18.5% vs. 13.6%) compared to those without injuries. A smaller proportion of women whose graduation status was confirmed were injured during BCT, 71.7% compared with 78.6% of those without injuries (Table 4.1).

Among men, point estimates of age (in years), height (in inches), weight (in pounds), and body mass index (BMI) in units of kg/m² were nearly identical for those with and without injuries during BCT, but all comparisons were statistically significant. For example, the mean (SD) weight of men who experienced at least one injury during BCT was 171.1 (30.52) pounds, compared with 169.8 (28.85) pounds for those without injuries (Table 4.2). In contrast, only mean (SD) age was statistically significantly different for women who were injured, 20.80 (3.73) years vs. those who were not injured 20.30 (3.36) years; mean height, weight, and BMI were not statistically significantly different for the injured vs. non-injured women (Table 4.2).

# Final Multivariable Model: Men

#### Sociodemographic characteristics

Adjusted odds ratios (OR) and 95% confidence intervals (95% CI) from the final multivariable model predicting risk of injury for men undergoing BCT are shown in Table 4.3. Categories of increasing age at entry into BCT $^1$  were monotonically associated with increases in odds of injury during BCT, such that men who were 19-20 years old had 18% higher odds of injury (OR=1.18, 95% CI: 1.15, 1.22), those who were 21-24 had 35% higher odds of injury (OR=1.35, 95% CI: 1.31, 1.40), and those who were  $\geq$  25 years old had 83% higher odds of injury (OR=1.83, 95% CI: 1.75, 1.91) compared with those who were 17-18 years old upon entering BCT.

Black men and those in the combined category of American Indian, Asian, or other race/ethnicity had slightly lower odds of injury compared with white men (OR=0.90 (95% CI: 0.85, 0.95) and OR=0.87 (95% CI: 0.84, 0.91), respectively). Hispanic men did not appear to have different odds of injury during BCT compared with white men (OR=1.01, 95% CI: 0.97, 1.04).

Men with less than 12 years of education had higher odds of injury during BCT compared with high school graduates (OR=1.20, 95% CI: 1.17, 1.23); additional education beyond high school did not appear to affect risk (OR=0.98, 95% CI: 0.94, 1.02).

Compared with E1, increasing pay grades at enlistment were associated with lower odds of injury during BCT: OR=0.84 (95% CI: 0.82, 0.87) for E2, OR=0.77 (95% CI: 0.74, 0.80) for E3, and OR=0.56 (95% CI: 0.53, 0.59) for the combined category of E4-E7.

Men who were currently married (OR=1.12, 95% CI: 1.09, 1.16) or formerly married (OR=1.36, 95% CI: 1.24, 1.49) had higher odds of injury than men who were single upon entry into BCT.

#### Anthropometric measures

For each unit increase in BMI, odds of injury increased slightly (OR=1.0, 95% CI: 1.0, 1.01), while men who were at least one standard deviation above or below the average height for the cohort had higher odds of injury than men who were of average height (OR=1.03, 95% CI: 1.0, 1.06 and OR=1.04, 95% CI: 1.01, 1.07, respectively).

Table 4.4 shows the results for alternative parameterizations of height and weight for men, adjusted for all other terms in the final model for men. After controlling for weight (in pounds), we found height (in inches), was marginally associated with odds of injury. Each one-inch increase in height was associated with a 1% increase in odds of injury during BCT (OR=1.01, 95% CI: 1.00, 1.01). In contrast, the point estimate and 95% confidence limits for the association between weight (in pounds) and injury during BCT were all 1.0. When we additionally controlled for BMI (kg/m²), we found height and BMI both to be inversely associated with odds of injury (OR=0.93, 95% CI: 0.91, 0.96 for height, and OR=0.90, 95% CI: 0.87, 0.93 for BMI), while weight was positively associated with odds of injury during BCT (OR=1.02, 95%

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<sup>&</sup>lt;sup>1</sup> Categories defined by quintiles for men in the whole cohort

CI: 1.01, 1.02). In the final version of the model, we controlled for both BMI (kg/m<sup>2</sup>) and unusual heights (mean  $\pm$  1 SD). In this model, none of the height and weight parameters was statistically significantly associated with odds of injury.

# Training and accession characteristics

Compared to those trained at Ft. Benning, men trained at any of the other four BCT locations had lower odds of injury (or at least receiving medical care for an injury) during BCT, as follows: Ft. Jackson, OR=0.66 (95% CI: 0.64, 0.69); Ft. Knox, OR=0.69 (95% CI: 0.66, 0.72); Ft. Leonard Wood, OR=0.67 (95% CI: 0.65, 0.70); and Ft. Sill, OR=0.91 (95% CI: 0.88, 0.95). A sizeable proportion of trainees had an unknown or missing Unit Identification Code (UIC), or one not associated with one of the five BCT locations, in spite of other indications that they were first time trainees; these men also had lower odds of injury compared with those trained at Ft. Benning (OR=0.71, 95% CI: 0.68, 0.74).

There were differences in odds of injury during BCT for men whose training began during different time periods. The most common period for starting training was the third quarter of 2006, so we defined this interval as the referent period. All other periods (defined by calendar year and quarter) were associated with increases in odds of injury, with statistically significant increases ranging in magnitude from 14% in the third quarter of 2005 (OR=1.14, 95% CI: 1.07, 1.22) to 54% in the first quarter of 2005 (OR=1.54, 95% CI: 1.44, 1.66).

The Armed Forces Qualification Test (AFQT) is administered at accession into the Army, and standardized scores are calculated from four Armed Services Vocational Aptitude Battery subtests. The combined standardized scores are combined and reported as percentiles, with those scoring below the tenth percentile considered unqualified for Army service. We grouped the percentile scores into quintiles including a combined group for scores coded as unknown, missing or between the first and ninth percentiles. The most common scores were between the 31<sup>st</sup> and 64<sup>th</sup> percentile, and we used this as the referent group. Trainees with all other values of the AFQT percentile scores were at similar or somewhat lower odds of injury compared with the referent, with those scoring highest on the AFQT having the lowest odds of injury (and the only ones statistically significantly different than the referent). For men with scores in the 65<sup>th</sup>-92<sup>nd</sup> percentile, the OR was 0.95 (95% CI: 0.93, 0.98), and for men with scores in the 93<sup>rd</sup>-99<sup>th</sup> percentile, the OR was 0.93 (95% CI: 0.88, 0.97).

We evaluated accession waivers and MDR data with encounter dates preceding the estimated BCT start date to identify indications of pre-existing injury. Men without indications of prior injury-related medical care but with accession waivers granted for administrative reasons, only (OR=1.08, 95% CI: 1.04, 1.12), and those with accession waivers for medical or administrative reasons, or with indications of prior injury-related medical care (OR=1.10, 95% CI: 1.05, 1.15) had higher odds of injury that were of similar magnitude compared with men with no indication that they entered BCT with pre-existing injuries.

## Final Multivariable Model: Women

# Sociodemographic characteristics

Adjusted odds ratios (OR) and 95% confidence intervals (95% CI) from the final multivariable model predicting risk of injury for women undergoing BCT are shown in Table 4.5. Categories of increasing age at entry into BCT² were monotonically associated with increases in odds of injury during BCT, with women who were 19-20 years old at accession having 15% higher odds of injury (OR=1.15, 95% CI: 1.08, 1.22), those who were 21-24 having 38% higher odds of injury (OR=1.38, 95% CI: 1.28, 1.49), and those who were ≥25 years old having 61% higher odds of injury (OR=1.61, 95% CI: 1.45, 1.78) compared with those who were 17-18 years old at accession.

Black women, Hispanic women, and women in the combined category of American Indian, Asian, or other race/ethnicity had slightly lower odds of injury compared with white women (OR=0.78, 95% CI: 0.71, 0.87); OR=0.88 (95% CI: 0.82, 0.93); and OR=0.88 (95% CI: 0.81, 0.95), respectively.

Women with less than 12 years of education had higher odds of injury during BCT compared with high school graduates (OR=1.16, 95% CI: 1.08, 1.23); additional education beyond high school did not appear to affect risk (OR=0.94, 95% CI: 0.86, 1.03).

Compared with women in E1, increasing pay grades at enlistment were associated with lower odds of injury during BCT: OR=0.89 (95% CI: 0.84, 0.95) for E2, OR=0.85 (95% CI: 0.79, 0.91) for E3, and OR=0.60 (95% CI: 0.53, 0.69) for the combined category of E4-E7.

Women who were currently married (OR=1.27, 95% CI: 1.18, 1.37) or formerly married (OR=1.67, 95% CI: 1.40, 1.99) had higher odds of injury than women who were single upon entry into BCT.

#### Anthropometric measures

For each unit increase in BMI, odds of injury decreased slightly (OR=0.99, 95% CI: 0.98, 1.00), while women who were at least one standard deviation below the average height for the women in the cohort had higher odds of injury than women who were of average height (OR=1.11, 95% CI: 1.03, 1.19). Above average height was not associated with odds of injury for women (OR=1.00. 95% CI: 0.93, 1.07).

Table 4.6 shows the results for alternative parameterizations of height and weight for women, adjusted for all other terms in the final model for women. Compared to those who were of normal BMI (18.5 – 25 kg/m²), we saw lower odds of injury for obese women (BMI  $\geq$ 30 kg/m², OR=0.79, 95% CI: 0.69, 0.90) and underweight (BMI < 18.5 kg/m², OR=0.86, 95% CI: 0.75, 1.0) and higher odds of injury for women who were overweight (25 kg/m²  $\leq$  BMI < 30 kg/m², OR=1.21, 95% CI: 0.94, 1.56). Because of its independent effects, evidenced by  $\Delta\beta\%$  and the results of the log-likelihood test, these results were also adjusted for height (in inches), which was inversely associated with injury risk. Each one-inch increase in height resulted in a statistically significant 2% decline in odds of injury (OR=0.98, 95% CI: 0.97, 0.99). In the second

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<sup>&</sup>lt;sup>2</sup> Categories defined by quintiles for women the whole cohort

alternative model, we included categories of BMI, and continuous measures of both height (inches) and weight (pounds). In this model, the decreased odds of injury for obese compared with normal weight women was slightly attenuated, but still present (OR=0.81, 95% CI: 0.69, 0.94), whereas other categories of BMI were no longer statistically significantly associated with odds of injury, and weight and height were marginally associated with injury risk. This version of the model is likely over-controlled. The final version of the model included BMI as a continuous covariate (kg/m²) and indicators for women who were unusually tall (mean + 1 SD) or short (mean – 1 SD). In this model, BMI was not associated with odds of injury, but unusually short women had higher odds (OR=1.11, 95% CI: 1.04, 1.19) compared with women of average height. Heights at least one SD taller than average were not statistically significantly associated with odds of injury during BCT.

# Training and accession characteristics

Compared to those trained at Ft. Jackson, women trained at Ft. Leonard Wood had higher odds of injury (OR=1.10, 95% CI: 1.04, 1.16). Women with unknown or missing Unit Identification Code (UIC), or one not associated with one of the three BCT training locations for women, had lower odds of injury compared with those trained at Ft. Jackson (OR=0.78, 95% CI: 0.72, 0.85).

Compared with the most common period for starting training, the third quarter of 2006, we noted non-statistically significant increases and decreases in odds of injury for women who started BCT at other times. Only three periods defined by calendar year and quarter were associated with statistically significant differences in odds of injury compared with the referent: OR=1.05 (95% CI: 1.26, 1.8) for women whose training began in the first quarter of 2005, OR=1.57 (95% CI: 1.33, 1.86) for women whose training began in the first quarter of 2006, and OR=1.24 (95% CI: 1.06, 1.46) for women whose training began in the first quarter of 2007.

Compared with women achieving the most common AFQT scores, between the 31<sup>st</sup> and 64<sup>th</sup> percentile, we noted that trainees with all other values of the AFQT percentile scores were at similar or somewhat lower odds of injury. Women who scored in the highest percentile category, the 93<sup>rd</sup> to 99<sup>th</sup> percentile, had the lowest odds of injury (OR=0.83, 95% CI: 0.72, 0.95). For women with scores in the 65<sup>th</sup>-92<sup>nd</sup> percentile, the OR was 0.92 (95% CI: 0.87, 0.97), and for women with scores in the 10th<sup>rd</sup>-30<sup>th</sup> percentile, the OR was 0.98 (95% CI: 0.83, 1.15). Women whose AFQT scores were unknown or missing, or at less than the 10<sup>th</sup> percentile, had the lowest odds of injury during BCT compared with the referent group, although the association was not statistically significant: OR=0.61 (95% CI: 0.35, 1.06).

Based on accession waivers and MDR data with encounter dates preceding the estimated BCT start date, we found indications of prior injury were inconsistently associated with odds of injury during BCT. Women without prior injury-related medical care but with accession waivers granted for administrative reasons had 12% higher odds of injury (OR=1.12, 95% CI: 1.00, 1.26), while those with accession waivers for medical or administrative reasons, or with indications of prior injury-related medical care, had no difference in odds of injury during BCT compared to women without prior injuries (OR=1.00, 95% CI: 0.90, 1.10).

Table 4.1. Demographic and training characteristics by injury: Testing data set

	Men (N=139,020) Injury in BCT				Women (N=27,651) Injury in BCT					
	Y	es	N	0		Yes			No	
	N	%	N	%	p-value*	N	%	N	%	p-value*
Race/ethnicity										
White	40023	73.06	59644	70.81	<.0001	9642	57.11	5644	52.41	<.0001
Black	6238	11.39	10131	12.03		3979	23.57	2815	26.14	
Hispanic	5651	10.32	9633	11.44		2256	13.36	1542	14.32	
Am Indian, Asian, or Other	2872	5.24	4828	5.73		1006	5.96	767	7.12	
Education level in years										
Less than 12	16134	29.45	21975	26.09	<.0001	3715	22	2162	20.08	<.0001
12	32493	59.31	51698	61.37		10716	63.47	6888	63.97	
Greater than 12	6157	11.24	10563	12.54		2452	14.52	1718	15.95	
Marital Status										
Single, Never Married	45026	82.19	71991	85.46	<.0001	13143	77.85	9092	84.44	<.0001
Married	8685	15.85	11227	13.33		3125	18.51	1466	13.61	
Formerly married (annulled, separated, interlocutory, divorced, or widowed)	1013	1.85	944	1.12		589	3.49	194	1.8	
Unknown	60	0.11	74	0.09		26	0.15	16	0.15	

Table 4.1, continued

	Men (N=139,020) Injury in BCT				Women (N=27,651) Injury in BCT					
	Y	es		No		Yes		No		
	N	%	N	%	p-value*	N	%	N	%	p-value*
Body Mass Index (BMI) in kg/m <sup>2</sup>										
Underweight: BMI<18.5	1443	2.63	1730	2.05	<.0001	713	4.22	397	3.69	0.001
Normal weight:18.5≤BMI<25	27288	49.81	43668	51.84		11174	66.18	7300	67.79	
Overweight: 25≤BMI<30	19316	35.26	30255	35.92		4714	27.92	2937	27.28	
Obese: BMI≥30	6737	12.3	8583	10.19		282	1.67	134	1.24	
Pay grade Enlisted 1	31266	57.07	43345	51.46	<.0001	9025	53.46	5279	49.02	<.0001
Enlisted 2	12405	22.64	20674	24.54		3798	22.5	2519	23.39	
Enlisted 3	8513	15.54	14957	17.76		3187	18.88	2208	20.51	
Enlisted 4, 5, 6, 7	2600	4.75	5260	6.24		873	5.17	762	7.08	
BCT Location										
Fort Benning, GA	18905	34.51	22450	26.65	<.0001	NA	NA	NA	NA	<.0001
Fort Jackson, SC	10016	18.28	19996	23.74		9926	58.79	6524	60.59	
Fort Sill, OK	7194	13.13	9558	11.35		NA	NA	NA	NA	
Fort Leonard Wood, MO	6794	12.4	12317	14.62		5314	31.48	2955	27.44	
Fort Knox, KY	6325	11.55	10613	12.6		NA	NA	NA	NA	
UIC Unknown, Missing, or Other	5550	10.13	9302	11.04		1643	9.73	1289	11.97	

Table 4.1, continued

Table III, commune		Men (N=139,020) Injury in BCT				Women (N=27,651) Injury in BCT				
	Y	es	No			Ye	Yes		No.	
	N	%	N	%	p-value*	N	%	N	%	p-value*
Start of BCT (Year)										
2002	7762	14.17	12361	14.67	<.0001	2563	15.18	1757	16.32	0.0066
2003	9964	18.19	14983	17.79		3275	19.4	2112	19.61	
2004	10551	19.26	15820	18.78		3272	19.38	2185	20.29	
2005	9218	16.83	13495	16.02		2641	15.64	1623	15.07	
2006	9436	17.22	15260	18.12		2901	17.18	1746	16.21	
2007	7853	14.33	12317	14.62		2231	13.21	1345	12.49	
Start of BCT (Month)										
January	5767	10.53	7926	9.41	<.0001	1544	9.15	840	7.8	<.0001
February	4298	7.85	5943	7.06		1392	8.24	724	6.72	
March	4197	7.66	5314	6.31		1130	6.69	596	5.53	
April	4842	8.84	5918	7.03		1532	9.07	763	7.09	
May	4771	8.71	6432	7.64		1383	8.19	866	8.04	
June	5359	9.78	9894	11.75		1657	9.81	1278	11.87	
July	5846	10.67	10667	12.66		1882	11.15	1404	13.04	
August	6392	11.67	10637	12.63		2150	12.73	1497	13.9	
September	5035	9.19	8493	10.08		1651	9.78	1126	10.46	
October	3894	7.11	6708	7.96		1248	7.39	907	8.42	
November	3632	6.63	5381	6.39		1118	6.62	687	6.38	
December	751	1.37	923	1.1		196	1.16	80	0.74	
	1									

Table 4.1, continued

<b>,</b>	Men (N=139,020) Injury in BCT					Women (N=27,651) Injury in BCT				
	Y	es	N	0		Y	es	N	10	
	N	%	N	%	p-value*	N	%	N	%	p-value*
Start of BCT (Year, Quarter)										
2002 Quarter 1	524	0.96	902	1.07	<.0001	162	0.96	89	0.83	<.0001
2003 Quarter 1	2806	5.12	4086	4.85		864	5.12	595	5.53	
2004 Quarter 1	2684	4.9	4613	5.48		918	5.44	670	6.22	
2005 Quarter 1	1748	3.19	2760	3.28		619	3.67	403	3.74	
2006 Quarter 1	2824	5.15	3715	4.41		986	5.84	598	5.55	
2007 Quarter 1	2578	4.71	3656	4.34		788	4.67	479	4.45	
2002 Quarter 2	2793	5.1	4489	5.33		954	5.65	636	5.91	
2003 Quarter 2	1769	3.23	3123	3.71		547	3.24	399	3.71	
2004 Quarter 2	3166	5.78	4281	5.08		901	5.34	558	5.18	
2005 Quarter 2	2941	5.37	4117	4.89		931	5.51	598	5.55	
2006 Quarter 2	2718	4.96	4941	5.87		889	5.27	709	6.58	
2007 Quarter 2	1726	3.15	2481	2.95		551	3.26	320	2.97	
2002 Quarter 3	2405	4.39	2779	3.3		596	3.53	257	2.39	
2003 Quarter 3	2106	3.84	3272	3.88		638	3.78	399	3.71	
2004 Quarter 3	3081	5.62	4974	5.9		963	5.7	676	6.28	
2005 Quarter 3	1626	2.97	2470	2.93		444	2.63	291	2.7	
2006 Quarter 3	2653	4.84	3577	4.25		709	4.2	290	2.69	
2007 Quarter 3	2400	4.38	3816	4.53		753	4.46	469	4.36	
2002 Quarter 4	2975	5.43	5689	6.75		1038	6.15	726	6.74	
2003 Quarter 4	1408	2.57	2178	2.59		401	2.38	261	2.42	
2004 Quarter 4	2690	4.91	3929	4.66		712	4.22	368	3.42	
2005 Quarter 4	2141	3.91	3297	3.91		598	3.54	367	3.41	
2006 Quarter 4	3022	5.52	5091	6.04		921	5.46	610	5.66	

Table 4.1, continued

Men (N=139,020)

Women (N=27,651)

	Injury in BCT				Injury in BCT					
	Yes		No			Yes		No		
	N		%		N	%		p-value		
AFQT score	_									
93% - 99%	3295	6.01	5729	6.8		546	3.23	434	4.03	
65% - 92%	19110	34.88	30315	35.99		4789	28.37	3203	29.75	
31% - 64%	30896	56.4	45800	54.37		11077	65.61	6795	63.1	
10% - 30%	1293	2.36	2026	2.41		420	2.49	290	2.69	
Unknown or missing or 1% - 9%	190	0.35	366	0.43		51	0.3	46	0.43	
					<.0001					<.0001
Confirmed Graduation										
No	29158	53.22	38024	45.14		4784	28.34	2308	21.43	
Yes	25626	46.78	46212	54.86		12099	71.66	8460	78.57	
					<.0001					<.0001
Pre-existing Injury										
Diagnosis or administrative or medical waiver	3576	6.53	4957	5.88		1054	6.24	658	6.11	
Administrative waiver but no diagnosis or medical waiver	6585	12.02	8529	10.13		1010	5.98	496	4.61	
No diagnosis or administrative or medical waiver	44623	81.45	70750	83.99		14819	87.77	9614	89.28	
					<.0001					<.0001

<sup>\*</sup>Pearson p-value

Table 4.2. Mean (SD) age, height, weight, and body mass index by injury outcome: Testing data set

	Men				Women					
	Injured Not injured				Injured		Not injured			
	N	Mean (Std)	N	Mean (Std)	p-value*	N	Mean (Std)	N	Mean (Std)	p-value*
Age (years)	54784	21.09 (3.66)	84236	20.59 (3.32)	<.0001	16883	20.80 (3.73)	10768	20.30 (3.36)	<.0001
Weight (pounds)	54646	171.1 (30.52)	83992	169.8 (28.85)	<.0001	16838	136.6 (21.13)	10731	137 (20.28)	0.1812
Height (inches)	54670	69.24 (2.75)	84033	69.18 (2.71)	<.0001	16844	63.97 (2.59)	10734	64.03 (2.55)	0.0622
Body Mass Index (kg/m²)	54646	25.04 (3.91)	83991	24.90 (3.70)	<.0001	16838	23.43 (2.96)	10731	23.44 (2.81)	0.6099

<sup>\*</sup>Satterthwaite p-value

Table 4.3: Adjusted odds ratios for injury during US Army Basic Combat Training: Men,  $2002-2007 (n=139,020)^a$ 

Parameter Parameter	OR (0.95 CI) <sup>b</sup>
Age categories (years)	
17-18	1.00
19-20	1.18 (1.15, 1.22)
21-24	1.35 (1.31, 1.4)
≥25	1.83 (1.75, 1.91)
Race/ethnicity	
White	1.00
Black	0.90 (0.85, 0.95)
Hispanic	1.01 (0.97, 1.04)
American Indian, Asian, or Other	0.87 (0.84, 0.91)
Educational attainment (years)	
12	1.00
Greater than 12	0.98 (0.94, 1.02)
Less than 12	1.20 (1.17, 1.23)
Marital status	
Single, Never Married	1.00
Formerly married <sup>d</sup>	1.36 (1.24, 1.49)
Married	1.12 (1.09, 1.16)
Unknown	1.08 (0.76, 1.53)
BMI (kg/m²)	1.00 (1, 1.01)
Height categories <sup>c</sup>	
Average Height	1.00
Unusually Short	1.03 (1, 1.06)
Unusually Tall	1.04 (1.01, 1.07)
Pay grade	
Enlisted 1	1.00
Enlisted 2	0.84 (0.82, 0.87)
Enlisted 3	0.77 (0.74, 0.8)
Enlisted 4, 5, 6, 7	0.56 (0.53, 0.59)
BCT location	
Fort Benning, GA	1.00
Fort Jackson, SC	0.66 (0.64, 0.69)
Fort Knox, KY	0.69 (0.66, 0.72)
Fort Leonard Wood, MO	0.67 (0.65, 0.7)
Fort Sill, OK	0.91 (0.88, 0.95)
UIC Unknown, Missing, or Other	0.71 (0.68, 0.74)

Table 4.3, continued

Parameter	OR (0.95 CI) <sup>b</sup>
Start of BCT (year and quarter)	
2006 Quarter 3	1.00
2002 Quarter 1	1.06 (0.94, 1.2)
2002 Quarter 2	1.29 (1.21, 1.38)
2002 Quarter 3	1.19 (1.12, 1.27)
2002 Quarter 4	1.18 (1.09, 1.27)
2003 Quarter 1	1.40 (1.31, 1.5)
2003 Quarter 2	1.33 (1.24, 1.43)
2003 Quarter 3	1.23 (1.15, 1.32)
2003 Quarter 4	1.06 (0.98, 1.14)
2004 Quarter 1	1.35 (1.26, 1.44)
2004 Quarter 2	1.34 (1.25, 1.43)
2004 Quarter 3	1.05 (0.98, 1.12)
2004 Quarter 4	1.28 (1.18, 1.38)
2005 Quarter 1	1.54 (1.44, 1.66)
2005 Quarter 2	1.22 (1.13, 1.31)
2005 Quarter 3	1.14 (1.07, 1.22)
2005 Quarter 4	1.15 (1.07, 1.25)
2006 Quarter 1	1.29 (1.2, 1.38)
2006 Quarter 2	1.16 (1.09, 1.25)
2006 Quarter 4	1.18 (1.08, 1.28)
2007 Quarter 1	1.21 (1.13, 1.29)
2007 Quarter 2	1.24 (1.15, 1.33)
2007 Quarter 3	1.17 (1.09, 1.24)
AFQT score at accession <sup>e</sup>	
31% - 64%	1.00
10% - 30%	0.99 (0.92, 1.07)
65% - 92%	0.95 (0.93, 0.98)
93% - 99%	0.93 (0.88, 0.97)
Unknown, missing or 1%-9%	0.84 (0.68, 1.03)

Table 4.3, continued

Parameter	OR (0.95 CI) <sup>b</sup>
Confirmed graduation	
No	1.00
Yes	0.80 (0.78, 0.82)
Indication of pre-existing injury	
No diagnosis or administrative or medical waiver	1.00
Administrative waiver but no diagnosis or medical waiver	1.08 (1.04, 1.12)
Diagnosis or administrative or medical waiver	1.10 (1.05, 1.15)

- a. 383 observations were deleted due to missing values for the response or explanatory variables.
- b. Odds ratios (OR) and 95% confidence intervals (95% CI) adjusted for all covariates shown in table.
- c. Average height: Height between mean height-SD height and mean height+SD;
   Unusually short: Height ≤ Mean height-SD height;
   Unusually tall: Height ≥ Mean height+SD height.
- d. Formerly married: annulled, separated, interlocutory, divorced, or widowed
- e. AFQT scores are computed using the Standard Scores from four ASVAB subtests: Arithmetic Reasoning (AR), Mathematics Knowledge (MK), Paragraph Comprehension (PC), and Word Knowledge (WK), and reported as percentiles between 1-99. AFQT percentile score below 10% indicate failure to qualify for Army (http://official-asvab.com/index.htm).

Table 4.4: Adjusted<sup>a</sup> odds of injury during US Army Basic Combat Training with, different parameterizations for height and weight.

Men, 2002-2007 (n=139,019)

	1:Adjusted for weight	2:Adjusted for BMI,	3:Adjusted for BMI and
	and height <sup>a</sup>	weight and height <sup>a</sup>	height flag <sup>a,b</sup>
	OR (0.95 CI)	OR (0.95 CI)	OR (0.95 CI)
BMI (kg/m <sup>2</sup> )		0.90 (0.87, 0.93)	1.00 (1.00, 1.01)
Weight (pounds)	1.00 (1.00, 1.00)	1.02 (1.01, 1.02)	
Height (inches)	1.01 (1.00, 1.01)	0.93 (0.91, 0.96)	
Height categories <sup>b</sup>			
Average Height			1.00
Unusually Short			1.01 (0.98, 1.05)
Unusually Tall			1.08 (1.05, 1.11)

a. Adjusted for all demographic and training variables: age, race/ethnicity, educational attainment, marital status, pay grade, training location, training began annual quarter, AFQT score, confirmed graduation status, and indication of pre-training injury.

b. Average height: Height between mean height-SD height and mean height+SD;

Unusually short: Height ≤ Mean height-SD height;

Unusually tall: Height ≥ Mean height+SD height.

Table 4.5. Adjusted odds ratios for injury during US Army Basic Combat Training: Women, 2002-2007 (n=27,651)<sup>a</sup>

	OR (0.95 CI) <sup>b</sup>
Age category (years)	
17-18	1.00
19-20	1.15 (1.08, 1.22)
21-24	1.38 (1.28, 1.49)
≥25	1.61 (1.45, 1.78)
Race/ethnicity	
White	1.00
Black	0.78 (0.71, 0.87)
Hispanic	0.88 (0.82, 0.93)
American Indian, Asian, or Other	0.88 (0.81, 0.95)
Educational attainment (years)	
12	1.00
Greater than 12	0.94 (0.86, 1.03)
Less than 12	1.16 (1.08, 1.23)
Marital status	
Single, never married	1.00
Formerly married <sup>c</sup>	1.67 (1.40, 1.99)
Married	1.27 (1.18, 1.37)
Unknown	0.87 (0.45, 1.67)
BMI (kg/m²)	0.99 (0.98, 1.00)
Height category <sup>c</sup>	
Average Height	1.00
Unusually Short	1.11 (1.03, 1.19)
Unusually Tall	1.00 (0.93, 1.07)
Pay grade	
Enlisted 1	1.00
Enlisted 2	0.89 (0.84, 0.95)
Enlisted 3	0.85 (0.79, 0.91)
Enlisted 4, 5, 6, 7	0.60 (0.53, 0.69)
BCT location	
Fort Jackson, SC	1.00
Fort Leonard Wood, MO	1.10 (1.04, 1.16)
UIC Unknown, Missing, or Other	0.78 (0.72, 0.85)

Table 4.5, continued

	OR (0.95 CI) <sup>b</sup>
Start of training (year and quarter)	
2006 Quarter 3	1.00
2002 Quarter 1	1.19 (0.90, 1.58)
2002 Quarter 2	0.94 (0.82, 1.09)
2002 Quarter 3	0.99 (0.86, 1.14)
2002 Quarter 4	1.03 (0.88, 1.21)
2003 Quarter 1	1.07 (0.92, 1.23)
2003 Quarter 2	1.10 (0.94, 1.27)
2003 Quarter 3	1.09 (0.95, 1.26)
2003 Quarter 4	0.89 (0.75, 1.05)
2004 Quarter 1	1.05 (0.91, 1.22)
2004 Quarter 2	1.01 (0.87, 1.16)
2004 Quarter 3	0.87 (0.76, 1.00)
2004 Quarter 4	1.11 (0.93, 1.31)
2005 Quarter 1	1.50 (1.26, 1.80)
2005 Quarter 2	1.08 (0.92, 1.27)
2005 Quarter 3	1.01 (0.88, 1.16)
2005 Quarter 4	0.94 (0.79, 1.13)
2006 Quarter 1	1.57 (1.33, 1.86)
2006 Quarter 2	1.10 (0.94, 1.28)
2006 Quarter 4	1.09 (0.90, 1.32)
2007 Quarter 1	1.24 (1.06, 1.46)
2007 Quarter 2	1.13 (0.96, 1.33)
2007 Quarter 3	1.06 (0.92, 1.22)
AFQT score at accession <sup>d</sup>	
31% - 64%	1.00
10% - 30%	0.98 (0.83, 1.15)
65% - 92%	0.92 (0.87, 0.97)
93% - 99%	0.83 (0.72, 0.95)
Unknown, missing or score 1%-9%	0.61 (0.35, 1.06)
Confirmed graduation	
No	1.00
Yes	0.71 (0.67, 0.76)
Indication of pre-existing injury	
No diagnosis or administrative or medical waiver	1.00
Administrative waiver but no diagnosis or medical waiver	1.12 (1.00, 1.26)
Diagnosis or administrative or medical waiver	1.00 (0.90, 1.10)

- a. 82 observations were deleted due to missing values for the response or explanatory variables.
- b. Odds ratios (OR) and 95% confidence intervals (95% CI) adjusted for all covariates shown in table.
- c. Formerly married: annulled, separated, interlocutory, divorced, or widowed.
- d. Average height: Height between mean height-SD height and mean height+SD;
   Unusually short: Height ≤ Mean height-SD height;
   Unusually tall: Height ≥ Mean height+SD height.
- e. AFQT scores are computed using the Standard Scores from four ASVAB subtests: Arithmetic Reasoning (AR), Mathematics Knowledge (MK), Paragraph Comprehension (PC), and Word Knowledge (WK), reported as percentiles between 1-99. AFQT percentile score below 10% indicate failure to qualify for Army (http://official-asvab.com/index.htm).

Table 4.6. Adjusted<sup>a</sup> odds of injury during US Army Basic Combat Training with, different parameterizations for height and weight. Women, 2002-2007 (n=27,651)

	1:Adjusted for categorical BMI and height <sup>a</sup> OR (0.95 CI)	2: Adjusted for categorical BMI, weight and height <sup>a</sup> OR (0.95 CI)	3:Adjusted for BMI and height flag <sup>a,c</sup> OR (0.95 CI)
BMI (kg/m²)			1.00 (1.00, 1.02)
BMI: Categorical <sup>b</sup>			
Normal Weight	1.00	1.00	
Obese	0.79 (0.69, 0.90)	0.81 (0.69, 0.94)	
Overweight	1.21 (0.94, 1.56)	1.32 (0.95, 1.83)	
Underweight	0.86 (0.75, 1.00)	0.91 (0.75, 1.11)	
Weight (pounds)		0.99 (0.97, 1.00)	
Height (inches)	0.98 (0.97, 0.99)	1.00 (1.00, 1.00)	
Height Flag <sup>c</sup>			
Average Height			
Unusually Short			1.11 (1.04, 1.19)
Unusually Tall			0.95 (0.89, 1.02)

a. Adjusted for all demographic and training variables: age, race/ethnicity, educational attainment, marital status, pay grade, training location, start of training (year and quarter), AFQT score, confirmed graduation status, and indication of pre-training injury.

Unusually short: Height ≤ Mean height-SD height;

Unusually tall: Height ≥ Mean height+SD height.

b. Normal weight:  $18.5 \le BMI < 25 \text{ kg/m}^2$ ; Obese:  $BMI \ge 30 \text{ kg/m}^2$ ; Overweight:  $25 \le BMI < 30 \text{ kg/m}^2$ ; Underweight:  $BMI < 18.5 \text{ kg/m}^2$ 

c. Average height: Height between mean height-SD height and mean height+SD;

Figure 4.1: ROC curve, Men, 2002-2007 (n=139,020)

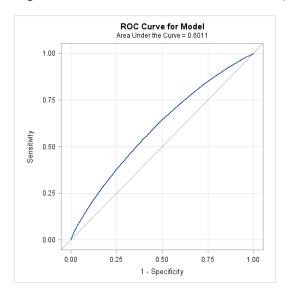
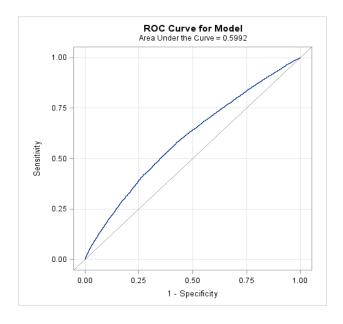


Figure 4.2: ROC curve, Women, 2002-2007 (n=27,651)



# Outcome 2: Cost of medical care

#### Methods

The methods used in this analysis are described in Part 2 of this report, where the incremental cost analysis was first introduced. The regression model used to determine the adjusted incremental cost of injury discussed in Part 2 is presented here. Again, the outcome of interest was the total direct medical cost per trainee (total\_cost), and the main independent variable was injury status. The analysis was stratified by gender, and covariates included BMI, age, race/ethnicity, marital status, education level, medical waiver at accession, and BCT location.

#### Results

Table 4.7 shows the results of this analysis. Injury status was the single largest predictor of medical costs. The adjusted incremental costs of injury discussed in Part 2 (\$825.90 for men, \$1093.70 for women) reveal that sustaining an injury is associated with medical costs roughly double those incurred in the absence of injury, after controlling for other factors that affect costs. This association is statistically significant (p<0.001) for both men and women. Factors that change costs by 10% or more of the adjusted incremental cost of injury (a change  $\geq$  \$82.59 for men or  $\geq$  \$109.37 for women) with p-values < 0.01, after controlling for all other factors in the model, are highlighted here.

# Sociodemographic characteristics

Older age was associated with increased costs for both men and women. Compared to trainees age 17-18, trainees over age 25 had mean medical costs \$160.50 higher for men (p<0.001) and \$207.70 higher for women (p<0.001).

For both men and women, all race/ethnicity groups other than white were associated with decreased costs. The largest decreases were for Hispanic women (-\$360.20, p<0.001), Black women (-\$261.00, p<0.001), Asian/American Indian/Other women (-\$239.70, p<0.001), and Hispanic men (-\$137.20, p<0.001).

Compared to trainees with less than a high school education, those with at least a high school education experienced lower medical costs. The largest decreases in costs were for trainees completing more than high school: -\$203.90 for women (p<0.001) and -\$175.10 for men (p<0.001), on average. Medical costs were also substantially lower for women with only a high school education (-\$139.0, p<0.001).

Compared to single women, married and divorced women had significantly higher medical costs, but only divorced women, with an increase of \$252.30 (p<0.001), reached the 10% higher than adjusted incremental cost threshold. Marital status did not significantly affect medical costs for men.

## Anthropometric measures

In general, higher BMI was associated with higher medical costs, but the difference was not statistically significant for all groups. Compared to men with a BMI of 18.5-25, men with a BMI > 30 had mean costs \$101.10 higher (p<0.001). Compared to women with a BMI of 18.5-25, women with a BMI < 18.5 had mean costs \$134.20 lower (p<0.001).

## Training and accession characteristics

Medical costs varied by training location for men, but not for women. Compared to male trainees at Fort Jackson, costs were substantially higher for male trainees at Fort Knox (\$212.50, p<0.001) and Fort Sill (\$111.70, p<0.001). Medical costs were significantly lower for male trainees at Fort Leonard Wood (-\$80.32, p<0.001), just under the 10% of adjusted incremental cost threshold. Having a medical waiver at accession was not significantly associated with medical costs during BCT for men or women.

Table 4.7. Additional medical costs of being injured, 2000 US Dollars

		Unadjusted			Adjusted	
	Male	Female	Pooled	Male	Female	Pooled
Constant	751.7***	1129.1***	794.6***	507.1***	1006.7***	479.1***
	(4.325)	(13.44)	(4.136)	(16.19)	(37.94)	(15.04)
Injured	846.5***	1136.7***	960.4***	825.9***	1093.7***	872.2***
	(11.22)	(21.84)	(9.836)	(11.28)	(21.81)	(10.05)
ВМІ						
< 18.5				20.96	-134.2**	-18.33
				(28.47)	(44.15)	(24.01)
25-30				31.99**	55.83*	35.77***
				(10.53)	(26.44)	(9.806)
> 30				101.1***	210.4	101.5***
				(17.12)	(155.3)	(17.17)
Age				· -/	,,	,
19-20				56.09***	93.26**	63.38***
				(13.41)	(30.15)	(12.24)
				( - /	(,	, ,
21-24				62.09***	70.26*	64.51***
				(14.66)	(34.40)	(13.44)
						. ,
> 25				160.5***	207.7***	167.1***
				(20.89)	(46.58)	(19.09)
Race & Ethnicity						
Unknown				-94.57	-1169.1*	-399.6
				(180.2)	(470.9)	(260.8)
Black				-40.54**	-261.0***	-94.13**
				(12.62)	(27.34)	(11.64)
Hispanic				-137.2***	-360.2***	-177.4**
•				(15.33)	(29.80)	(13.66)
				. ,	,	,
Asian, Am Indian & Other				-61.78**	-239.7***	-91.64**
				(20.31)	(50.92)	(19.03)
Marital Status						-
Marriad				7.473	98.90**	28.34*
Married				/1F 12\	(25.02)	(14.00)
Married				(15.12)	(35.93)	(14.00)
Divorced				66.49	(35.93) 252.3***	131.4***

		Unadjusted			Adjusted	
	Male	Female	Pooled	Male	Female	Pooled
<b>Education Level</b>						
High School				-60.86***	-139.1***	-70.02***
				(12.50)	(35.32)	(11.76)
> High School				-175.1***	-203.9***	-174.5***
				(16.55)	(45.23)	(15.62)
Medical Waiver				49.58*	80.22	54.08**
				(20.32)	(57.83)	(19.45)
BCT Location						
Fort Bennning GA				52.85***	0	48.57***
				(13.22)	(.)	(13.21)
Fort Sill OK				111.7***	0	108.0***
				(14.30)	(.)	(14.20)
Fort Leonard Wood MO				-80.32***	-27.71	-58.08***
				(14.93)	(28.10)	(13.50)
Fort Knox KY				212.5***	0	214.2***
				(16.53)	(.)	(16.44)
Unknown & Other				35.74*	-25.03	25.07
				(15.90)	(35.65)	(14.64)
Female				0	0	661.2***
				(.)	(.)	(13.91)
Year Fixed Effects	No	No	No	Yes	Yes	Yes
N	278045	55302	333347	278045	55302	333347
R-Squared	0.0255	0.0388	0.0323	0.0297	0.0477	0.0427
F-Stat	5692.0	2709.5	9533.2	316.9	155.8	542.2

Standard errors in parentheses \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

# Outcome 3: High-cost injuries

#### Methods

The aim of this analysis was to identify factors associated with very high direct medical costs among injured trainees. From the analysis for Outcome 2, it is evident that sustaining an injury is the largest predictor of total direct medical costs. This analysis therefore focuses on factors that further increase costs among injured trainees. A high-cost injury is defined here as an injury resulting in direct medical costs greater than \$10,000 per trainee or an injury necessitating inpatient care.

A simple cross-tabulation was used to describe the characteristics of trainees with high-cost injuries. To determine the additional cost incurred when inpatient care is needed, an incremental cost approach was again taken, using the same basic regression model as for Outcome 2 above, with two changes. The outcome was again the total direct medical cost per trainee, but the analysis was limited to injured trainees and the regression model included an indicator for inpatient care instead of the injury indicator. All covariates remained the same.

#### Results

## Trainees with High Costs

Table 4.8 shows the characteristics of trainees with very high medical costs (>\$10,000) or needing inpatient care. Less than 1% of trainees sustained high-cost injuries. A total of 2641 trainees (0.79%) had total direct medical costs over \$10,000, and 736 trainees (0.22%) required inpatient care.

Incurring costs over \$10,000 was significantly associated with age, race/ethnicity, marital status, and education level. Of trainees over age 25, 1.00% incurred costs greater than \$10,000, compared to 0.71% of trainees age 17-18. Only 0.63% of Hispanic trainees incurred costs greater than \$10,000, compared to 0.68% of black trainees, 0.75% of Asian/American Indian/Other trainees, and 0.85% of white trainees. Among divorced trainees, 1.30% incurred costs greater than \$10,000, compared to 0.93% of married trainees, and 0.76% of single trainees. Of trainees with more than a high school education, only 0.62% incurred costs greater than \$10,000, compared to 0.76% of trainees completing high school, and 0.94% of trainees with less than a high school education.

Receiving inpatient care was significantly associated with BMI, age, and marital status. Of trainees with a BMI > 30, 0.35% received inpatient care, compared to 0.20% of trainees with a BMI < 25 and 0.22% of trainees with a BMI of 25-30. Of trainees over age 25, 0.32% received inpatient care, compared to 0.17% of trainees age 17-18. Among divorced trainees, 0.34% received inpatient care, compared to 0.28% of married trainees and 0.21% of single trainees.

# Additional Medical Costs of Inpatient Care

Table 4.9 shows the additional medical cost of inpatient care, among injured trainees, after adjusting for BMI, age, race/ethnicity, marital status, education level, receiving a medical waiver

at accession, and BCT location. Receiving inpatient care increased mean costs by \$7884.20 for men (p<0.001) and \$5625.00 for women (p<0.001), above and beyond the mean cost of injury for each group.

# Factors that Affect Costs, Controlling for Inpatient Care

Factors that significantly affect costs (at p<0.01) among injured trainees, after controlling for inpatient care status, are highlighted here.

# Sociodemographic characteristics

Older age was still associated with increased costs for both men and women. Compared to trainees age 17-18, trainees over age 25 had mean medical costs \$201.10 higher for men (p<0.001) and \$208.60 higher for women (p<0.001).

For both men and women, black and Hispanic race/ethnicity were associated with decreased costs, compared to white trainees. The largest decreases were for Hispanic women (-\$419.10, p<0.001), black women (-\$324.80, p<0.001), Hispanic men (-\$238.10, p<0.001), and black men (-\$100.80, p<0.001).

Compared to trainees with less than a high school education, those with at least a high school education again experienced lower medical costs, and these differences were significant for both men and women. The largest decreases in costs were for trainees completing more than high school: -\$232.40 for women (p<0.001) and -\$207.20 for men (p<0.001), on average. Medical costs were also lower for trainees with only a high school education: -\$188.30 (p<0.001) for women and -\$74.23 (p<0.01) for men.

Compared to single women, divorced women had significantly higher medical costs (an additional \$259.90, p<0.01), but married women did not. Marital status still did not significantly affect medical costs for men.

#### Anthropometric measures

Compared to men with a BMI of 18.5-25, men with a BMI > 30 had mean costs \$131.30 higher (p<0.001). The cost increases associated with higher BMI for women did not disappear, but were not highly significant after controlling for inpatient care.

#### Training and accession characteristics

Medical costs again varied by training location for men, but not for women. Compared to male trainees at Fort Jackson, costs were still substantially higher for male trainees at Fort Knox (\$386.10, p<0.001) and Fort Sill (\$162.00, p<0.001). Medical costs were also still significantly lower for male trainees as Fort Leonard Wood (-\$105.20, p<0.01). Having a medical waiver at accession was still not significantly associated with medical costs during BCT for men or women.

Table 4.8. Characteristics of trainees with high-cost injuries, men and women

BMI	n (	\$10,000	-	Care	Total
	n (		Inpatient Care		_
		70)	n (%)		n
		(0 =0)		(0.00)	
<18.5	66	(0.78)	17	(0.20)	8446
18.5-25	1381	(0.77)	352	(0.20)	178866
25-30	934	(0.82)	256	(0.22)	114287
>30	260	(0.82)	111	(0.35)	31748
chi2	2.13		28.80		
p	0.545		2.47e-06		
Age					
17-18	718	(0.71)	174	(0.17)	101481
19-20	851	(0.81)	230	(0.22)	104578
21-24	632	(0.76)	193	(0.23)	83247
> 25	440	(1.00)	139	(0.32)	44041
chi2	35.01		29.65		
р	1.21e-07		1.64e-06		
Race & Ethnicity					
Unknown	0	(0.00)	0	(0.00)	7
White	1943	(0.85)	544	(0.24)	229676
Black	317	(0.68)	86	(0.19)	46481
Hispanic	239	(0.63)	76	(0.20)	38183
Asian, Am Indian & Other	142	(0.75)	30	(0.16)	19000
chi2	29.60		9.64		
р	5.90e-06		0.047		
Marital Status					
Single	2109	(0.76)	579	(0.21)	278482
Married	455	(0.93)	137	(0.28)	48945
Divorced	77	(1.30)	20	(0.34)	5920
chi2	35.54	,	13.54	,	
р	1.91e-08		0.001		
Education Level					
< High School	825	(0.94)	202	(0.23)	88172
High School	1555	(0.76)	444	(0.22)	203405
> High School	261	(0.62)	90	(0.22)	41770
chi2	39.96	, ,	0.388	, ,	-
p	2.10e-09		0.824		
Total	2641	(0.79)	736	(0.22)	333347

Table 4.9. Additional medical costs of inpatient care, among injured trainees, 2000 US dollars

Table 4.9. Additional med	ilcai costs oi	Unadjusted	re, among n	ijureu traine	Adjusted	o uollais
	Male	Female	Pooled	Male	Female	Pooled
Constant	1556.8***	2238.2***	1716.9***	1172.6***	2008.6***	1157.1***
	(9.365)	(16.51)	(8.183)	(35.24)	(58.02)	(30.59)
Injured - Inpatient	7923.3***	5671.4***	7413.2***	7884.2***	5625.0***	7385.1***
	(801.0)	(960.0)	(658.7)	(799.7)	(954.4)	(657.7)
BMI						
< 18.5				58.07	-140.4*	-6.476
				(54.18)	(62.00)	(41.69)
25-30				52.52*	76.35*	56.55**
				(22.29)	(37.00)	(19.16)
> 30				131.3***	314.7	139.5***
				(32.60)	(205.0)	(32.26)
Age						
19-20				38.10	107.1*	55.75*
				(30.59)	(44.60)	(25.47)
21-24				44.43	67.47	52.28
				(32.21)	(49.77)	(27.09)
> 25				201.0***	208.6***	202.9***
				(40.52)	(63.16)	(34.46)
Race & Ethnicity						
Unknown				0	-1773.0***	-1829.0***
				(.)	(83.30)	(51.06)
Black				-100.8***	-324.8***	-174.2***
				(23.61)	(40.45)	(20.79)
Hispanic				-238.1***	-419.1***	-282.8***
				(31.51)	(43.04)	(25.99)
Asian, Am Indian & Other				-29.04	-201.7*	-67.66
				(48.19)	(79.72)	(41.15)
Marital Status						
Married				2.573	82.70	24.69
				(29.14)	(49.51)	(25.15)
Divorced				99.19	259.9**	163.7**
				(68.02)	(82.35)	(52.57)

		Unadjuste	d		Adjusted	
	Male	Female	Pooled	Male	Female	Pooled
Education Level						
High School				-74.23**	-188.3***	-96.45***
				(26.07)	(51.98)	(23.05)
> High School				-207.2***	-232.4***	-203.5***
				(33.25)	(64.47)	(29.35)
Medical Waiver				27.49	15.73	25.04
				(33.36)	(64.73)	(29.68)
BCT Location						
Fort Bennning GA				45.81	0	48.22
				(29.26)	(.)	(28.18)
Fort Sill OK				162.0***	0	161.8***
				(27.34)	(.)	(26.21)
Fort Leonard Wood MO				-105.2**	-61.74	-82.41**
				(33.72)	(40.47)	(25.89)
Fort Knox KY				386.1***	0	391.8***
				(33.28)	(.)	(32.40)
Unknown & Other				90.01**	67.62	87.77**
				(32.30)	(56.76)	(28.06)
Female				0	0	841.9***
				(.)	(.)	(22.98)
Year Fixed Effects	No	No	No	Yes	Yes	Yes
N	109760	33699	143459	109760	33699	143459
R-Squared	0.0277	0.0156	0.0245	0.0336	0.0269	0.0384
F-Stat	97.84	34.90	126.7	41.39		

Standard errors in parentheses \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

# Part 5:

# **Discussion and conclusions**

This project used U.S. Army administrative data to study BCT-related injuries in a cohort of all individuals apparently undergoing BCT for the first time between January 1, 2002 and September 30, 2007. This study determined the incidence of BCT-related injuries, described those injuries, identified risk factors for those injuries, and estimated the direct medical costs incurred by the Army for those injuries.

## Injuries

Among the entire cohort of basic trainees, 39.5% of men and 61.0% of women had at least one injury-related medical encounter during BCT. These rates are higher than those found in previous studies. As mentioned earlier, prior estimates of incidence rates of outpatient musculoskeletal injury among U.S. Army trainees were approximately 25% of men and 50% of women experiencing an injury during an eight-week period (Kaufman, Brodine et al., 2000).

There are several possible reasons for the higher rates found in this study. These findings most likely reflect a true increase in the incidence of BCT-related injury over time. Between the time of the earlier studies and this study, the length of BCT increased from eight weeks to ten weeks, thus increasing the risk period. This study also included injuries treated in the inpatient setting, which prior studies did not. However, the very low number of inpatient cases found here suggests that this could not possibly explain such a large difference in findings. Finally, this Army-wide study included all training locations, whereas prior studies were confined to one or two training sites. Because injury rates vary by training location, this could explain some of the difference in rates found. As this study is more comprehensive and more recent than prior research, the incidence rates presented here should be seen as more accurate for today's Army than prior estimates.

The same nine primary diagnoses were associated with the highest numbers of medical encounters for both men and women, though their rankings differed by gender. The most common reason for medical encounters for both men and women was "pain in joint, lower leg", accounting for approximately 15% of injury visits. Other common diagnoses were "pain in limb," "pain in joint, ankle & foot," "sprain of ankle, unspecified," "backache, unspecified," "low back pain," "sprains and strains of unspecified site of knee and leg," "joint pain, shoulder," and "pain in joint, pelvic region and thigh." This finding is consistent with prior research that has identified overuse injuries, strains, and sprains, especially in the lower extremities, as the most common types of training-related injuries (Kaufman, Brodine, et al., 2000).

For both men and women, older age, white race/ethnicity, lower educational attainment, being married or divorced vs. single, lower pay grade, and scoring lower on the Armed Forces Qualification Test (AFQT) were independently associated with increased injury risk. The findings on age are consistent with prior research showing strong evidence of an association between older age and increased risk of BCT-related injury (Bulzacchelli et al., 2014). Prior research on race/ethnicity and education level produced mixed or insufficient evidence of an association with injury risk (Bulzacchelli et al., 2014). This study provides much needed new

evidence for understanding the role of these factors. There is little prior research on marital status and risk of BCT-related injury. The finding that injury risk is higher for married and divorced trainees likely reflects uncontrolled confounding by age.

After controlling for all other factors, a one-unit difference in BMI was not associated with injury risk for men or women in this study. However, it is possible that a larger difference in BMI would be associated with injury risk. For women, very short height was associated with increased injury risk. This is likely because equipment is designed for an average-size man. Wherever possible, ergonomic principles should be used to design equipment for individuals of various dimensions to minimize injury risk.

Accession waivers, which were used as a proxy for pre-existing injury, were associated with increased risk of injury for men, but this association was not clear for women. Past research on prior injury as a risk factor for BCT-related injury has produced mixed findings for men and insufficient evidence for women (Bulzacchelli et al, 2014). The current study provides additional evidence of an association for men, but the question remains unsettled for women. Non-specific coding of reasons for accession waivers adds uncertainty to the interpretation of this finding.

Injury risk varied by training location. For men, training at Fort Benning was associated with higher injury risk than training at any of the other four locations. For women, training at Fort Leonard Wood was associated with higher injury risk than training at Fort Jackson. Differences in injury risk by training location have been reported in the past (Grier, Knapik, Canada, Canham-Chervak, Jones, 2010; Scott, Feltwell, Knapik, Barkley, Hauret, Bullock, et al., 2012; Swedler, Knapik, Williams, Grier, Jones, 2011) and might indicate differences in the application of training protocols, training conditions, or willingness of trainees to report injuries. This study was not able to determine reasons for differences in risk across training sites, as information about these potentially important factors is not available from centralized administrative databases. An in-depth study of the training environments and attitudes about injury in each of the five training sites is needed to fully understand the reasons for these findings, and would potentially lead to interventions to reduce future risks.

## Costs

The cost analysis revealed that, overall, the Army spent an average of approximately \$1200 on medical care per trainee over the study period. Injury status was the single largest predictor of direct medical costs. The mean medical cost per injured trainee was \$1755.00, compared to \$794.60 per non-injured trainee. Thus, for each injured trainee, the Army spent an additional \$960.40, on average. After adjusting for other factors that affect costs, the mean additional cost of injury was determined to be \$872.20 (\$1093.70 for women, \$825.90 for men). These additional costs of injury amounted to a total of \$127,507,380 for the entire study period, or \$21,929,700 per year.

There are no other studies of costs of BCT-related injuries available for comparison. However, a recent study of Division I collegiate athletes, Kaeding, Borchers, Oman, & Pedroza (2014) provides costs for a similar population. They studied the number of medical claims and expenses per claim for men's and women's sports teams for 14 college sports with corresponding male and female teams. They analyzed total charges from claims for all sports-related injury or illness experienced by team members from 2005-2010. For cross country teams, which are likely subject to injury risks similar to Army basic trainees, they found that the

men's team had 0.5 claims and \$913 per athlete per year, compared to 1.1 claims and \$1516 per athlete per year for the women's team, which equates to approximately \$1800 per claim for men and \$1500 per claim for women. These numbers are a little higher than the incremental cost of injury found in the present study, especially for the men.

In the current study, mean medical costs were higher for women than men, but predictors of cost were similar for men and women. Controlling for other factors that affect costs, increased costs were associated with older age, white race/ethnicity, lower educational attainment, and higher BMI, for both men and women. Medical costs were also higher for married and divorced women than for single women, but marital status did not significantly affect medical costs for men. Medical costs varied by training location for men, but not for women. Having a medical waiver at accession was not statistically significantly associated with medical costs during BCT for men or women.

Shi et al. (2015) used MEPS data to study medical expenditures associated with occupational injuries in the United States. They found an overall mean expenditure of \$1953 (in 2011 US dollars) for 3034 non-fatally injured workers without persistent disabilities. This estimate rose to \$2212 after controlling for other factors. These numbers are somewhat higher than the injury cost estimates produced by the current study, but likely reflect a different mix of injuries and cover a larger segment of the US population. Their analysis is useful for comparisons of risk factors for increased costs. Controlling for other factors, they found non-significant trends similar to those found in the present study for age (\$2030 for age 18-24 vs. \$2489 for age 25-44), and education (\$2640 for > high school, \$2892 for high school, and \$3163 for < high school), but not for gender, race/ethnicity, or marital status.

For trainees who were not injured, mean medical costs were very similar across training locations. However, for injured trainees, mean costs varied by both type of injury and training location. Of the ten most common injury diagnoses, "physical therapy necessary" had the highest overall mean costs, at \$2522.30 per trainee, followed by "pain in joint, pelvis & thigh," at \$2512.60 per trainee. Over all injuries, Fort Benning had the lowest mean costs (\$1566.50 per injured trainee) and Fort Jackson had the highest mean costs (\$1916.40 per injured trainee). Variation in costs for the same type of injury sustained at different training locations ranged from \$308 to \$921. This variation in costs across training locations for the same type of injury could be due to differences in trainee characteristics, differences in injury severity within a given diagnosis, differences in treatment practices for injuries, differences in trainees' medical care seeking behavior for injuries, or regional differences in medical pricing for injury-related care. Information about injury severity, which was not available for this analysis, would be useful for future research and should be recorded along with the other medical encounter data.

Less than 1% of trainees sustained high-cost injuries. A total of 2641 trainees (0.79%) had total direct medical costs over \$10,000, and 736 trainees (0.22%) required inpatient care. Incurring costs over \$10,000 was associated with older age, white race/ethnicity, being married or divorced, and lower education level. Receiving inpatient care was associated with older age, being married or divorced, and higher BMI. Receiving inpatient care increased mean costs by \$7884 for men and \$5625 for women, above and beyond the mean cost of injury for each group.

The additional cost of inpatient care is consistent with findings from prior research. In the most comprehensive study of injury costs in the United States, Finkelstein, Corso, & Miller (2006) estimated that lifetime medical costs of a sprain/strain in the civilian population were \$957 (in 2000 US dollars) per injury for non-hospitalized cases and \$12,239 for hospitalized cases.

# Methodological Considerations

Several challenges were encountered in the course of this study that created serious methodological limitations. The ability to carry out this project was hampered by insufficient data documentation, including incomplete or missing coding manuals and data dictionaries; incomplete training data (dates of starting and completing training; graduation status; training location); lack of pertinent trainee characteristics, such as fitness test scores and alcohol and tobacco use; and lack of indicators for separate injury episodes.

Algorithms were developed to identify potential first-time trainees and their training dates and injuries, but it was not possible to verify the validity or the completeness of the final data set. In fact, an error in defining the cohort of first-time trainees was discovered after the analysis was completed. Soldiers in pay grades E5-E7 should have been excluded from the cohort, but were not. As only 392 individuals included in the cohort (approximately 0.12% of the total) were in pay grades E5-E7, this error should not affect the results of the study.

The very large database provided superb statistical power to detect small magnitude differences between injured and non-injured trainees. Consequently, the analyses yielded some statistically significant associations that are not necessarily clinically significant or actionable. Trainers and policy makers must use their professional judgment in interpreting the findings presented here.

While statistical power was excellent, internal validity was jeopardized by the lack of data on important trainee characteristics. In this study, it was impossible to control for physical fitness and smoking, two characteristics known to be risk factors for BCT-related injuries (Bulzacchelli et al., 2014).

A final limitation is that the findings presented here do not reflect any changes made to recruitment or training protocols in the past ten years. They serve as baseline cost estimates. These analyses should be re-run with more recent data, and current costs should be compared to these baselines.

# Conclusion

Approximately 40% of men and 61% of women sustained BCT-related injuries from 2002 to 2007. The most common types of injuries were sprains, strains, joint pain, and back pain. For each injured trainee, the Army incurs an estimated \$872 in additional direct medical costs, which amounts to approximately \$22 million annually.

These estimates include only direct costs of medical care. The additional costs of lost training time are not captured here. The economic burden of BCT-related injuries is therefore larger than these estimates suggest.

While the Army's current administrative data systems make this type of Army-wide analysis possible, these systems would be more useful for research purposes if they recorded BCT start and end dates for all trainees, trainee characteristics such as physical fitness and smoking, and information about injury severity. Data documentation must also be improved to facilitate research.

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# **Appendix**

Table A1. ICD-9 Diagnosis codes taken to indicate injury-related care

Injuries Related Diagnose	ICD-9 Codes
Gen Osteoarthros-Hand	71504
General Osteoarthrosis	71509
Loc Prim Osteoart-Unspec	71510
Loc Prim Osteoart-Shlder	71511
Loc Prim Osteoart-Up/Arm	71512
Loc Prim Osteoarth-Hand	71514
Loc Prim Osteoart-Pelvis	71515
Loc Prim Osteoart-L/Leg	71516
Loc Prim Osteoarth-Ankle	71517
Loc Prim Osteoarthr Nec	71518
Loc 2nd Osteoarthro-Hand	71524
Loc 2nd Osteoarth-Pelvis	71525
Loc 2nd Osteoarthr-L/Leg	71526
Loc 2nd Osteoarthr-Ankle	71527
Loc 2nd Osteoarthros Nec	71528
Loc Osteoart Nos-Forearm	71533
Loc Osteoarth Nos-Hand	71534
Loc Osteoarth Nos-Pelvis	71535
Loc Osteoarth Nos-L/Leg	71536
Loc Osteoarth Nos-Ankle	71537
Osteoarthrosis-Mult Site	71580
Osteoarthrosis-Mult Site	71589
Osteoarthros Nos-Unspec	71590
Osteoarthros Nos-Shider	71591
Osteoarthros Nos-Up/Arm	71592
Osteoarthros Nos-Forearm	71593
Osteoarthros Nos-Pelvis	71595
Osteoarthros Nos-L/Leg	71596
Osteoarthros Nos-Ankle	71597
Osteoarthro Nos-Oth Site	71598
Kaschin-Beck Dis-Unspec	71600
Traum Arthropathy-Unspec	71610

Traum Arthropathy-Shlder Traum Arthropathy-Up/Arm Traum Arthropathy-Forearm Traum Arthropathy-Forearm Traum Arthropathy-Hand Traum Arthropathy-Hand Traum Arthropathy-L/Leg Traum Arthropathy-L/Leg Traum Arthropathy-L/Leg Traum Arthropathy-Mult Traum Arthropathy-Mult Traum Arthropathy-Mult Allerg Arthritis-Unspec Allerg Arthritis-Hand Traus Arthritis-Pelvis Traus Arthritis-Ankle Traus Arthritis-Ankle Trans Arthritis-Ankle Trans Arthropathy-Shlder Trans Arthropathy-Shlder Trans Arthropathy-Hand Trans Arthropathy-Hand Trans Arthropathy-L/Leg Trans Arthropathy-L/Leg Trans Arthropathy-L/Leg Trans Arthropathy-Ankle Trans Arthropathy-Ankle Trans Arthropathy-Ankle Trans Arthropathy-L/Leg Trans Arthropathy-Tos-Pelvis Trans Arthropathy Nos-L/Leg Trans Arthropathy Nos-Unspec Trans Arthropathy Nos-Ankle Arthropathy Nec-Hand Arthropathy Nec-Hand Arthropathy Nec-Pelvis Arthropathy Nec-Pelvis Arthropathy Nec-Pelvis Arthropathy Nec-L/Leg Trans Arthropathy Nec-L/Leg		
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Infer Disloc Humerus-Cl 83103  Disloc Acromioclavic-Cl 83104  Disloc Shoulder Nec-Clos 83109  Disloc Shoulder Nos-Open 83110  Ant Disloc Humerus-Open 83111  Disloc Acromioclavic-Opn 83114  Disloc Shoulder Nec-Open 83119  Disloc Shoulder Nec-Open 83200  Ant Disloc Elbow Nos-Close 83200  Ant Disloc Elbow-Closed 83201  Post Disloc Elbow-Closed 83202  Lat Disloc Elbow-Closed 83204  Dislocat Elbow Nec-Close 83209  Ant Disloc Elbow-Open 83211  Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloc Dist Radiouln-Cl 83301  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disloc Metacarpophaln-Cl 83401	Ant Disloc Humerus-Close	83101
Disloc Acromioclavic-CI  Disloc Shoulder Nec-Clos  Disloc Shoulder Nos-Open  Billoc Shoulder Nos-Open  Ant Disloc Humerus-Open  Billoc Acromioclavic-Opn  Disloc Shoulder Nec-Open  Billoc Elbow Nos-Close  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Open  Billoc Elbow-Open  Billoc Wrist Nos-Closed  Billoc Dist Radiouln-Cl  Billoc Dist Radiouln-Cl  Billoc Acromioclavic-Open  Billoc Acromioclavic-Open  Billoc Billoc Billow-Open  Billoc Billoc Billow-Open  Billoc Billoc Billow-Open  Billoc Billoc Billow-Open  Billoc Bill	Post Disloc Humerus-Clos	83102
Disloc Shoulder Nec-Clos  Disloc Shoulder Nos-Open  Ant Disloc Humerus-Open  Billoc Acromioclavic-Opn  Disloc Shoulder Nec-Open  Billoc Shoulder Nec-Open  Billoc Shoulder Nec-Open  Disloc Shoulder Nec-Open  Billoc Shoulder Nec-Open  Billoc Shoulder Nec-Open  Billoc Shoulder Nec-Open  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Closed  Billoc Elbow-Open  Billoc Elbow-Open  Billoc Wrist Nos-Closed  Billoc Disloc Dist Radiouln-Cl  Billoc Midcarpal-Closed  Disloc Carpometacarp-Cl  Billoc Metacarpal-Closed  Billoc Metacarpal-Closed  Billoc Metacarpal-Open  Billocat Metacarpal-Open  Billocat Metacarpal-Open  Billoc Metacarpophaln-Cl  Billoc Metacarpophaln-Cl  Billoc Metacarpophaln-Cl	Infer Disloc Humerus-Cl	83103
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Ant Disloc Humerus-Open 83111  Disloc Acromioclavic-Opn 83114  Disloc Shoulder Nec-Open 83119  Dislocat Elbow Nos-Close 83200  Ant Disloc Elbow-Closed 83201  Post Disloc Elbow-Closed 83202  Lat Disloc Elbow-Closed 83204  Dislocat Elbow Nec-Close 83209  Ant Disloc Elbow-Open 83211  Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Dislocat Metacarpophaln-Cl 83400  Disloc Metacarpophaln-Cl 83401	Disloc Shoulder Nec-Clos	83109
Disloc Acromioclavic-Opn  Disloc Shoulder Nec-Open  Dislocat Elbow Nos-Close  Ant Disloc Elbow-Closed  Post Disloc Elbow-Closed  B3201  Post Disloc Elbow-Closed  B3202  Lat Disloc Elbow-Closed  Dislocat Elbow Nec-Close  Ant Disloc Elbow-Open  B3211  Disloc Wrist Nos-Closed  Disloc Dist Radiouln-Cl  Disloca Midcarpal-Closed  Disloc Carpometacarp-Cl  Disloc Metacarpal-Closed  Dislocat Wrist Nos-Open  B3310  Dislocat Metacarpal-Open  B3315  Disl Finger Nos-Closed  B3400  Disloc Metacarpophaln-Cl  B3401	Disloc Shoulder Nos-Open	83110
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Ant Disloc Elbow-Closed 83201  Post Disloc Elbow-Closed 83202  Lat Disloc Elbow-Closed 83204  Dislocat Elbow Nec-Close 83209  Ant Disloc Elbow-Open 83211  Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Disloc Shoulder Nec-Open	83119
Post Disloc Elbow-Closed 83202  Lat Disloc Elbow-Closed 83204  Dislocat Elbow Nec-Close 83209  Ant Disloc Elbow-Open 83211  Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Dislocat Elbow Nos-Close	83200
Lat Disloc Elbow-Closed 83204  Dislocat Elbow Nec-Close 83209  Ant Disloc Elbow-Open 83211  Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Ant Disloc Elbow-Closed	83201
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Ant Disloc Elbow-Open 83211  Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Lat Disloc Elbow-Closed	83204
Disloc Wrist Nos-Closed 83300  Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Dislocat Elbow Nec-Close	83209
Disloc Dist Radiouln-Cl 83301  Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Ant Disloc Elbow-Open	83211
Disloca Midcarpal-Closed 83303  Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Disloc Wrist Nos-Closed	83300
Disloc Carpometacarp-Cl 83304  Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Disloc Dist Radiouln-Cl	83301
Disloc Metacarpal-Closed 83305  Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Disloca Midcarpal-Closed	83303
Dislocat Wrist Nos-Open 83310  Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Disloc Carpometacarp-Cl	83304
Dislocat Metacarpal-Open 83315  Disl Finger Nos-Closed 83400  Disloc Metacarpophaln-Cl 83401	Disloc Metacarpal-Closed	83305
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Disl Interphaln Hand-Opn Dislocat Hip Nos-Closed Posterior Disloc Hip-Cl Ant Disloc Hip Nec-Clos Tear Med Menisc Knee-Cur Bas60 Tear Lat Menisc Knee-Cur Bas61 Tear Meniscus Nec-Curren Bas62 Dislocat Patella-Closed Bas63 Dislocation Patella-Open Bas64 Dislocat Knee Nos-Closed Ant Disloc Prox Tibia-Cl Bas651 Lat Disloc Prox Tibia-Cl Bas654 Dislocat Knee Nec-Closed Bas659 Post Disl Prox Tibia-Opn Bas662 Dislocation Ankle-Closed Bas70 Dislocation Ankle-Open Bas71 Dislocat Foot Nos-Closed Bas803 Disloc Tarsometatars-Cl Bas803 Disloc Metatarsal Nos-Cl Bas804 Disloc Tarsal Nos-Open Bas811 Disloc Tarsal Nos-Open Bas814 Disloc Cerv Vert Nos-Cl Bas900 Disloc 2nd Cerv Vert-Cl Bas903 Disloc Mult Cerv Vert-Cl Bas903 Dislocat Sternum-Closed Bas904 Dislocat Sternum-Closed Bas905 Dislocat Sternum-Closed Bas906 Dislocat Site Nec-Closed Bas906 Dislocat Site Nec-Closed Bas906 Dislocat Sternum-Closed Bas908 Dislocat Sternum-Closed Bas908 Dislocat Site Nec-Closed Bas908 Dislocat Site Nec-Closed Bas908 Dislocation Nec-Closed Bas908	Disloc Finger Nos-Open	83410
Dislocat Hip Nos-Closed Posterior Disloc Hip-Cl Ant Disloc Hip Nec-Clos Tear Med Menisc Knee-Cur Tear Lat Menisc Knee-Cur B361 Tear Meniscus Nec-Curren B362 Dislocat Patella-Closed B363 Dislocation Patella-Open B364 Dislocat Knee Nos-Closed B3650 Ant Disloc Prox Tibia-Cl B3651 Lat Disloc Prox Tibia-Cl B3654 Dislocat Knee Nec-Closed B3659 Post Disl Prox Tibia-Opn B3662 Dislocation Ankle-Closed B370 Dislocation Ankle-Closed B3800 Dislocation Ankle-Open B371 Dislocat Foot Nos-Closed B3800 Disloc Tarsometatars-Cl B3803 Disloc Metatarsal Nos-Cl B3804 Dislocat Foot Nec-Closed B3809 Disloc Tarsal Nos-Open B3811 Disl Metatarsal Nos-Open B3814 Disloc Cerv Vert Nos-Cl B3900 Disloc 2nd Cerv Vert-Cl B3903 Disloc Mult Cerv Vert-Cl B3903 Dislocat Lumbar Vert-Cl B3908 Dislocat Sternum-Closed B3969 Dislocation Nec-Closed B3969 Dislocation Nec-Closed B398 Sprain Acromioclavicular	Disl Metacarpophalan-Opn	83411
Posterior Disloc Hip-Cl 83501 Ant Disloc Hip Nec-Clos 83503 Tear Med Menisc Knee-Cur 8361 Tear Menisc Knee-Cur 8361 Tear Menisc Nec-Curren 8362 Dislocat Patella-Closed 8363 Dislocation Patella-Open 8364 Dislocat Knee Nos-Closed 83650 Ant Disloc Prox Tibia-Cl 83651 Lat Disloc Prox Tibia-Cl 83654 Dislocat Knee Nec-Closed 83659 Post Disl Prox Tibia-Opn 83662 Dislocation Ankle-Closed 8370 Dislocation Ankle-Open 8371 Dislocat Foot Nos-Closed 83800 Disloc Tarsometatars-Cl 83803 Disloc Metatarsal Nos-Cl 83804 Disloc Tarsal Nos-Open 83811 Disl Metatarsal Nos-Open 83814 Disloc Cerv Vert Nos-Cl 83900 Disloc 2nd Cerv Vert-Cl 83902 Disloc Mult Cerv Vert-Cl 83908 Dislocat Sternum-Closed 83969 Dislocat Site Nec-Closed 83969 Dislocat Site Nec-Closed 8398 Sprain Acromioclavicular 8400	Disl Interphaln Hand-Opn	83412
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Dislocat Foot Nos-Closed 83800  Disloc Tarsometatars-Cl 83803  Disloc Metatarsal Nos-Cl 83804  Dislocat Foot Nec-Closed 83809  Disloc Tarsal Nos-Open 83811  Disl Metatarsal Nos-Open 83814  Disloc Cerv Vert Nos-Cl 83900  Disloc 2nd Cerv Vert-Cl 83902  Disloc 3rd Cerv Vert-Cl 83903  Disloc Mult Cerv Vert-Cl 83908  Dislocat Lumbar Vert-Cl 83920  Dislocat Coccyx-Closed 83941  Dislocat Sternum-Closed 83961  Dislocat Site Nec-Closed 8398  Sprain Acromioclavicular 8400	Dislocation Ankle-Closed	8370
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Disloc Mult Cerv Vert-Cl 83908  Dislocat Lumbar Vert-Cl 83920  Dislocat Coccyx-Closed 83941  Dislocat Sternum-Closed 83961  Dislocat Site Nec-Closed 83969  Dislocation Nec-Closed 8398  Sprain Acromioclavicular 8400	Disloc 2nd Cerv Vert-Cl	83902
Dislocat Lumbar Vert-Cl 83920  Dislocat Coccyx-Closed 83941  Dislocat Sternum-Closed 83961  Dislocat Site Nec-Closed 83969  Dislocation Nec-Closed 8398  Sprain Acromioclavicular 8400	Disloc 3rd Cerv Vert-Cl	83903
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Dislocat Site Nec-Closed 83969  Dislocation Nec-Closed 8398  Sprain Acromioclavicular 8400	Dislocat Coccyx-Closed	83941
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Sup Glenoid Labrm Lesion 8407  Sprain Shoulder/Arm Nec 8408  Sprain Shoulder/Arm Nos 8409  Sprain Radial Collat Lig 8410  Sprain Ulnar Collat Lig 8411  Sprain Radiohumeral 8412  Sprain Ulnohumeral 8413  Sprain Elbow/Forearm Nec 8418  Sprain Elbow/Forearm Nos 8419
Sprain Shoulder/Arm Nec 8408  Sprain Shoulder/Arm Nos 8409  Sprain Radial Collat Lig 8410  Sprain Ulnar Collat Lig 8411  Sprain Radiohumeral 8412  Sprain Ulnohumeral 8413  Sprain Elbow/Forearm Nec 8418  Sprain Elbow/Forearm Nos 8419
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Sprain Of Foot Nos  Sprain Tarsometatarsal  Sprain Metatarsophalang  Sprain Interphalang Toe  Sprain Lumbosacral  Sprain Sacroiliac  Sprain Sacroiliac Nec  Sprain Sacroiliac Nos  Sprain Of Neck  Sprain Of Neck  Sprain Thoracic Region  Sprain Coccyx  Sprain Of Sacrum  Sprain Of Sacrum  Sprain Of Back Nos  Sprain Of Nasal Septum  Sprain Of Jaw  Sprain Of Ribs  Sprain Of Sternum Nos  Sprain Of Sternum Nos  Sprain Of Sternum Nos  Sprain Of Sternum Nec  Sprain Of Sternum Nec  Sprain Of Sternum Nec  Sprain Of Pelvis  Sprain Nos  Concussion W/O Coma  S502  Concussion Nos  8509	Sprain Distal Tibiofibul	84503
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Sprain Sacrospinatus Sprain Sacroiliac Nec Sprain Sacroiliac Nos Sprain Of Neck Sprain Thoracic Region Sprain Of Sacrum Sprain Of Sternum Nos Sprain Of Sternum Nos Sprain Of Sternum Nos Sprain Sternoclavicular Sprain Of Sternum Nec Sprain Nos Spra	Sprain Lumbosacral	8460
Sprain Sacroiliac Nec Sprain Sacroiliac Nos Sprain Of Neck Sprain Thoracic Region Sprain Lumbar Region Sprain Of Sacrum Sprain Of Sacrum Sprain Of Sacrum Sprain Of Coccyx Sprain Of Back Nos Sprain Of Nasal Septum Sprain Of Ribs Sprain Of Sternum Nos Sprain Of Sternum Nos Sprain Sternoclavicular Sprain Chondrosternal Sprain Of Sternum Nec Sprain Nec S	Sprain Sacroiliac	8461
Sprain Sacroiliac Nos Sprain Of Neck Sprain Thoracic Region Sprain Lumbar Region Sprain Of Sacrum Sprain Of Sacrum Sprain Of Sacrum Sprain Of Coccyx Sprain Of Back Nos Sprain Of Nasal Septum Sprain Of Jaw Sprain Of Ribs Sprain Of Sternum Nos Sprain Of Sternum Nos Sprain Sternoclavicular Sprain Chondrosternal Sprain Of Sternum Nec Sprain Of Pelvis Sprain Nec Sprain Nec Sprain Nec Sprain Nos Concussion W/O Coma Concus-Brief Coma 31-59 Mn Spos Concussion W Coma Nos Spos Concussion Nos Spos Spos Concussion Nos Spos Spos Spos Spos Spos Spos Spos Sp	Sprain Sacrospinatus	8462
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Cerebel Lacer W Open Wnd Brain Laceration Nec Brain Lacer Nec-Coma Nos Brain Lacer Nec-Concuss Brain Hem-Mod Coma Brain Hem-Mod Coma Brain Hem-Deep Coma Brain Inj Nec-Coma Nos Brain Inj Nec-Concussion Brain Injury W Opn Wnd Brain Inj-Concussion	Cerebell Contus-Coma Nos	85146
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Traumatic Extradural Hem 85240  Extradural Hem W/O Coma 85241  Extradural Hem-Mod Coma 85243  Extradural Hem-Coma Nos 85246  Extadural Hem-Coma Nos 85249  Extradural Hem-Coma Nos 85256  Traumatic Brain Hem Nec 85300  Brain Hem Nec-Brief Coma 85302  Brain Hem Nec-Coma Nos 85306  Brain Injury Nec 85400  Brain Injury Nec-No Coma 85401  Brain Inj Nec-Brief Coma 85402  Brain Inj Nec-Coma Nos 85406  Brain Inj Nec-Coma Nos 85406  Brain Inj Nec-Concussion 85409  Brain Injury W Opn Wnd 85410  Opn Brain Inj-Concussion 85419	Subdural Hem-Deep Coma	85225
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Burn Nos Upper Arm 94303	

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Burn Nos Arm-Multiple         94309           1st Deg Burn Arm Nos         94310           1st Deg Burn Forearm         94311           1st Deg Burn Upper Arm         94313           1st Deg Burn Shoulder         94315           2nd Deg Burn Arm Nos         94320           2nd Deg Burn Forearm         94321           2nd Deg Burn Shoulder         94325           Burn Nos Hand-Unspec         94400           Burn Nos Finger         94401           Burn Nos Thumb         94402           Burn Nos Mult Fingers         94403           Burn Nos Mult Fingers         94403           Burn Nos Palm         94405           Burn Nos Back Of Hand         94406           Burn Nos Wrist         94407           Burn Nos Hand-Multiple         94408           1st Deg Burn Hand Nos         94410           1st Deg Burn Finger         94411           1st Deg Burn Mult Finger         94413           1st Deg Burn Palm         94415           1st Deg Burn Hand Nos         94420           2nd Deg Burn Finger         94421           2nd Deg Burn Fingr W Thumb         94424           2nd Deg Burn Back Of Hand         94425           2 Deg Burn Back Of Hand </td <td>Burn Nos Axilla</td> <td>94304</td>	Burn Nos Axilla	94304
1st Deg Burn Arm Nos         94310           1st Deg Burn Forearm         94311           1st Deg Burn Upper Arm         94313           1st Deg Burn Shoulder         94320           2nd Deg Burn Forearm         94321           2nd Deg Burn Shoulder         94325           Burn Nos Hand-Unspec         94400           Burn Nos Finger         94401           Burn Nos Thumb         94402           Burn Nos Mult Fingers         94403           Burn Nos Finger W Thumb         94404           Burn Nos Palm         94405           Burn Nos Back Of Hand         94406           Burn Nos Wrist         94407           Burn Nos Hand-Multiple         94408           1st Deg Burn Hand Nos         94410           1st Deg Burn Finger         94411           1st Deg Burn Mult Finger         94413           1st Deg Burn Wrist         94417           2nd Deg Burn Hand Nos         94420           2nd Deg Burn Finger         94421           2nd Deg Burn Fingr W Thumb         94423           2 Deg Burn Fingr W Thumb         94424           2nd Deg Burn Back Of Hand         94426           2nd Deg Burn Hand-Mult         94427           2nd Deg Burn Hand	Burn Nos Scapula	94306
1st Deg Burn Forearm       94311         1st Deg Burn Upper Arm       94313         1st Deg Burn Shoulder       94320         2nd Deg Burn Forearm       94321         2nd Deg Burn Shoulder       94325         Burn Nos Hand-Unspec       94400         Burn Nos Finger       94401         Burn Nos Thumb       94402         Burn Nos Mult Fingers       94403         Burn Nos Finger W Thumb       94404         Burn Nos Palm       94405         Burn Nos Back Of Hand       94406         Burn Nos Wrist       94407         Burn Nos Hand-Multiple       94408         1st Deg Burn Hand Nos       94410         1st Deg Burn Finger       94411         1st Deg Burn Wrist       94415         1st Deg Burn Palm       94415         1st Deg Burn Hand Nos       94420         2nd Deg Burn Finger       94421         2nd Deg Burn Fingr W Thumb       94423         2 Deg Burn Palm       94425         2 Deg Burn Back Of Hand       94426         2nd Deg Burn Hand-Mult       94426         2nd Deg Burn Hand-Mult       94427         2nd Deg Burn Hand-Mult       94428         3rd Deg Burn Hand-Mult       94428 <td>Burn Nos Arm-Multiple</td> <td>94309</td>	Burn Nos Arm-Multiple	94309
1st Deg Burn Upper Arm 94313  1st Deg Burn Shoulder 94320  2nd Deg Burn Forearm 94321  2nd Deg Burn Shoulder 94325  Burn Nos Hand-Unspec 94400  Burn Nos Finger 94401  Burn Nos Thumb 94402  Burn Nos Mult Fingers 94403  Burn Nos Finger W Thumb 94404  Burn Nos Back Of Hand 94406  Burn Nos Wrist 94407  Burn Nos Hand-Multiple 94408  1st Deg Burn Hand Nos 94410  1st Deg Burn Wrist 94415  1st Deg Burn Wrist 94417  2nd Deg Burn Hand Nos 94420  2nd Deg Burn Finger 94423  2 Deg Burn Finger 94423  2 Deg Burn Back Of Hand 94426  2nd Deg Burn Hand Nos 94420  2nd Deg Burn Back Of Hand 94426  2nd Deg Burn Back Of Hand 94426  2nd Deg Burn Hand Nos 94420  2nd Deg Burn Back Of Hand 94426  2nd Deg Burn Back Of Hand 94426  2nd Deg Burn Hand-Mult 94428  3rd Deg Burn Hand Nos 94430  Burn Nos Leg-Unspec 94500	1st Deg Burn Arm Nos	94310
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1st Deg Burn Mult Finger       94413         1st Deg Burn Palm       94415         1st Deg Burn Wrist       94417         2nd Deg Burn Hand Nos       94420         2nd Deg Burn Finger       94421         2nd Deg Burn Mult Finger       94423         2 Deg Burn Fingr W Thumb       94424         2nd Deg Burn Palm       94425         2 Deg Burn Back Of Hand       94426         2nd Deg Burn Wrist       94427         2nd Deg Burn Hand-Mult       94428         3rd Deg Burn Hand Nos       94430         Burn Nos Leg-Unspec       94500	1st Deg Burn Hand Nos	94410
1st Deg Burn Palm       94415         1st Deg Burn Wrist       94417         2nd Deg Burn Hand Nos       94420         2nd Deg Burn Finger       94421         2nd Deg Burn Mult Finger       94423         2 Deg Burn Fingr W Thumb       94424         2nd Deg Burn Palm       94425         2 Deg Burn Back Of Hand       94426         2nd Deg Burn Wrist       94427         2nd Deg Burn Hand-Mult       94428         3rd Deg Burn Hand Nos       94430         Burn Nos Leg-Unspec       94500	1st Deg Burn Finger	94411
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2nd Deg Burn Hand Nos       94420         2nd Deg Burn Finger       94421         2nd Deg Burn Mult Finger       94423         2 Deg Burn Fingr W Thumb       94424         2nd Deg Burn Palm       94425         2 Deg Burn Back Of Hand       94426         2nd Deg Burn Wrist       94427         2nd Deg Burn Hand-Mult       94428         3rd Deg Burn Hand Nos       94430         Burn Nos Leg-Unspec       94500	1st Deg Burn Palm	94415
2nd Deg Burn Finger       94421         2nd Deg Burn Mult Finger       94423         2 Deg Burn Fingr W Thumb       94424         2nd Deg Burn Palm       94425         2 Deg Burn Back Of Hand       94426         2nd Deg Burn Wrist       94427         2nd Deg Burn Hand-Mult       94428         3rd Deg Burn Hand Nos       94430         Burn Nos Leg-Unspec       94500	1st Deg Burn Wrist	94417
2nd Deg Burn Mult Finger 94423  2 Deg Burn Fingr W Thumb 94424  2nd Deg Burn Palm 94425  2 Deg Burn Back Of Hand 94426  2nd Deg Burn Wrist 94427  2nd Deg Burn Hand-Mult 94428  3rd Deg Burn Hand Nos 94430  Burn Nos Leg-Unspec 94500	2nd Deg Burn Hand Nos	94420
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2 Deg Burn Back Of Hand 94426  2nd Deg Burn Wrist 94427  2nd Deg Burn Hand-Mult 94428  3rd Deg Burn Hand Nos 94430  Burn Nos Leg-Unspec 94500	2 Deg Burn Fingr W Thumb	94424
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2nd Deg Burn Hand-Mult 94428  3rd Deg Burn Hand Nos 94430  Burn Nos Leg-Unspec 94500	2 Deg Burn Back Of Hand	94426
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Burn Nos Leg-Unspec 94500	2nd Deg Burn Hand-Mult	94428
	3rd Deg Burn Hand Nos	94430
Burn Nos Toe 94501	Burn Nos Leg-Unspec	94500
	Burn Nos Toe	94501

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1st Deg Burn Knee       94515         2nd Deg Burn Leg Nos       94520         2nd Deg Burn Toe       94521         2nd Deg Burn Foot       94522         2nd Deg Burn Ankle       94523         2nd Deg Burn Lower Leg       94524         Burn Nos Multiple Site       9460         1st Deg Burn Mult Site       9461         2nd Deg Burn Mult Site       9463         3rd Deg Burn Mult Site       9463         Burn Of Mouth & Pharynx       9470         Bdy Brn < 10%/3d Deg Nos	Burn Nos Leg-Multiple	94509
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Inj Musculocutan Nerve 9554 Inj Cutan Senso Nerv/Arm 9555 Injury Digital Nerve 9556 Inj Nerve Shldr/Arm Nec 9557 Inj Nerve Shldr/Arm Nos 9559 Injury Sciatic Nerve 9560 Injury Femoral Nerve 9561 Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Injury Ulnar Nerve	9552
Inj Cutan Senso Nerv/Arm 9555 Injury Digital Nerve 9556 Inj Nerve Shldr/Arm Nec 9557 Inj Nerve Shldr/Arm Nos 9559 Injury Sciatic Nerve 9560 Injury Femoral Nerve 9561 Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Injury Radial Nerve	9553
Injury Digital Nerve 9556  Inj Nerve Shldr/Arm Nec 9557  Inj Nerve Shldr/Arm Nos 9559  Injury Sciatic Nerve 9560  Injury Femoral Nerve 9561  Injury Peroneal Nerve 9563  Inj Cutan Senso Nerv/Leg 9564  Inj Nerve Pelv/Leg Nec 9565  Inj Mult Nerve Pelv/Leg 9568  Inj Nerve Pelv/Leg Nos 9569  Injury To Nerve Nec 9571  Injury To Mult Nerves 9578  Injury To Nerve Nos 9579  Posttraum Wnd Infec Nec 9583  Traumatic Shock 9584  Traumatic Anuria 9585  Traum Subcutan Emphysema 9587	Inj Musculocutan Nerve	9554
Inj Nerve Shldr/Arm Nec 9557 Inj Nerve Shldr/Arm Nos 9559 Injury Sciatic Nerve 9560 Injury Femoral Nerve 9561 Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traum Subcutan Emphysema 9587	Inj Cutan Senso Nerv/Arm	9555
Inj Nerve Shldr/Arm Nos 9559 Injury Sciatic Nerve 9560 Injury Femoral Nerve 9561 Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traum Subcutan Emphysema 9587	Injury Digital Nerve	9556
Injury Sciatic Nerve 9560 Injury Femoral Nerve 9561 Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traum Subcutan Emphysema 9587	Inj Nerve Shldr/Arm Nec	9557
Injury Femoral Nerve 9561 Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Inj Nerve Shldr/Arm Nos	9559
Injury Peroneal Nerve 9563 Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Injury Sciatic Nerve	9560
Inj Cutan Senso Nerv/Leg 9564 Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Injury Femoral Nerve	9561
Inj Nerve Pelv/Leg Nec 9565 Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Injury Peroneal Nerve	9563
Inj Mult Nerve Pelv/Leg 9568 Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Inj Cutan Senso Nerv/Leg	9564
Inj Nerve Pelv/Leg Nos 9569 Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Inj Nerve Pelv/Leg Nec	9565
Injury To Nerve Nec 9571 Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Inj Mult Nerve Pelv/Leg	9568
Injury To Mult Nerves 9578 Injury To Nerve Nos 9579 Posttraum Wnd Infec Nec 9583 Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Inj Nerve Pelv/Leg Nos	9569
Injury To Nerve Nos 9579  Posttraum Wnd Infec Nec 9583  Traumatic Shock 9584  Traumatic Anuria 9585  Traum Subcutan Emphysema 9587	Injury To Nerve Nec	9571
Posttraum Wnd Infec Nec 9583  Traumatic Shock 9584  Traumatic Anuria 9585  Traum Subcutan Emphysema 9587	Injury To Mult Nerves	9578
Traumatic Shock 9584 Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Injury To Nerve Nos	9579
Traumatic Anuria 9585 Traum Subcutan Emphysema 9587	Posttraum Wnd Infec Nec	9583
Traum Subcutan Emphysema 9587	Traumatic Shock	9584
	Traumatic Anuria	9585
Forth Complia Trauma Nac 0500	Traum Subcutan Emphysema	9587
Early Complic Trauma Nec 9588	Early Complic Trauma Nec	9588
Compartment Syndrome Nos 95890	Compartment Syndrome Nos	95890
Trauma Comp Synd Low Ext 95892	Trauma Comp Synd Low Ext	95892
Head Injury Nos 95901	Head Injury Nos	95901
Face & Neck Injury 95909	Face & Neck Injury	95909
Injury Of Chest Wall Nec 95911	Injury Of Chest Wall Nec	95911

Injury Of Abdomen Nec	95912
Fx Corpus Cavrnosm Penis	95913
Inj External Genital Nec	95914
Trunk Injury-Sites Nec	95919
Shldr/Upper Arm Inj Nos	9592
Elb/Forearm/Wrst Inj Nos	9593
Hand Injury Nos	9594
Finger Injury Nos	9595
Hip & Thigh Injury Nos	9596
Lower Leg Injury Nos	9597
Injury MIt Site/Site Nec	9598
Injury-Site Nos	9599
Fit Orthopedic Devices	V537
Aftercare Joint Replace	V5481
Orthopedic Aftercare Nec	V5489
Orthopedic Aftercare Nos	V549
Physical Therapy Nec	V571
Encntr Occupatnal Thrpy	V5721
Encntr Vocational Thrpy	V5722
Attn Rem Nonsurg Dressng	V5830
Attn Rem Surg Dressing	V5831
Attn Removal Of Sutures	V5832
Postop Oth Specfd Aftrcr	V5849
Observ-Work Accident	V713
Observ-Accident Nec	V714

Table A2. ICD-9 Procedure codes taken to indicate injury-related care

Injuries Related Procedure	ICD-9 Codes
Anesth Inject-Spin Canal	0391
Bone Scan	9214
C.A.T. Scan Of Head	8703
C.A.T. Scan Of Thorax	8741
Chest X-Ray Nec	8749
Debrid Opn Fx-Radius/Uln	7962
Drain Face & Mouth Floor	270
Dressing Of Wound Nec	9357
Dx Ultrasound Nec	8879
Dx Ultrasound-Urinary	8875
Dx Ultrasound-Vascular	8877
Facial Bone Sequestrect	7601
Inject Antibiotic	9921
Inject Steroid	9923
Insert Endotracheal Tube	9604
Insert Intercostal Cath	3404
Internal Fixation-Femur	7855
Iridoplasty Nec	1239
Loc Exc Bone Les Patella	7766
Op Red-Int Fix Rad/Ulna	7932
Op Red-Int Fix Tib/Fibul	7936
Oth Arthrotomy-Knee	8016
Other C.A.T. Scan	8838
Other Repair Of Knee	8147
Other Skin & Subq I & D	8604
Oxygen Enrichment Nec	9396
Packed Cell Transfusion	9904
Physical Therapy Nec	9339
Platelet Transfusion	9905
Remove Int Fix Face Bone	7697
Routine Chest X-Ray	8744
Scrotum & Tunica I & D	610
Skel Xray-Ankle & Foot	8828
Skel Xray-Pelvis/Hip Nec	8826
Suture Scleral Lacer	1281

Table A3. ICD-9 Diagnose and Procedure codes (combined) taken to indicate injury-related care

Procedure1	Procedure2	Procedure3	Procedure4	Dx1	Dx2	ID	Include Or Exclude?
C.A.T. Scan Of Head	Cardiac Stress Test Nec	Nebulizer Therapy	Dx Ultrasound-Heart	Syncope And Collapse	Asthma Nos	35333	Include
Nebulizer Therapy				Pneumonia, Organism Nos	Hyposmolality	65740	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hypopotassemia	66872	Exclude
Inject Antibiotic	Inject/Infuse Nec	Nebulizer Therapy		Pneumonia, Organism Nos	Dehydration	68895	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hypopotassemia	83335	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hyposmolality	91762	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hyposmolality	112631	Exclude
Nebulizer Therapy				493924	Hypopotassemia	121666	Exclude
Nebulizer Therapy	Bone Scan			Pneumo Oth Grm-Neg Bact	Early Complic Trauma Nec	153100	Include
Other Skin & Subq I & D	Nebulizer Therapy	Oxygen Enrichment Nec		Pneumonia, Organism Nos	Blister Foot & Toe	193956	Exclude
Dx Ultrasound-Heart	Cardiac Stress Test Nec	Nebulizer Therapy		Syncope And Collapse	Asthma Nos	297404	Include
Nebulizer Therapy				Pneumonia, Organism Nos	Hyposmolality	328773	Exclude
Dx Ultrasound-Heart	Nebulizer Therapy			Syncope And Collapse	Exercse Ind Bronchospasm	330823	Include
Nebulizer Therapy				Pneumonia, Organism Nos	Hypopotassemia	341543	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hyposmolality	342184	Exclude
Inject Antibiotic	Inject/Infuse Nec	Nebulizer Therapy		Pneumonia, Organism Nos	Hypopotassemia	354159	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hypopotassemia	358801	Exclude
Nebulizer Therapy				493921	Hypopotassemia	399505	Exclude
Nebulizer Therapy				Pneumonia, Organism Nos	Hypopotassemia	410677	Exclude